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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

BY

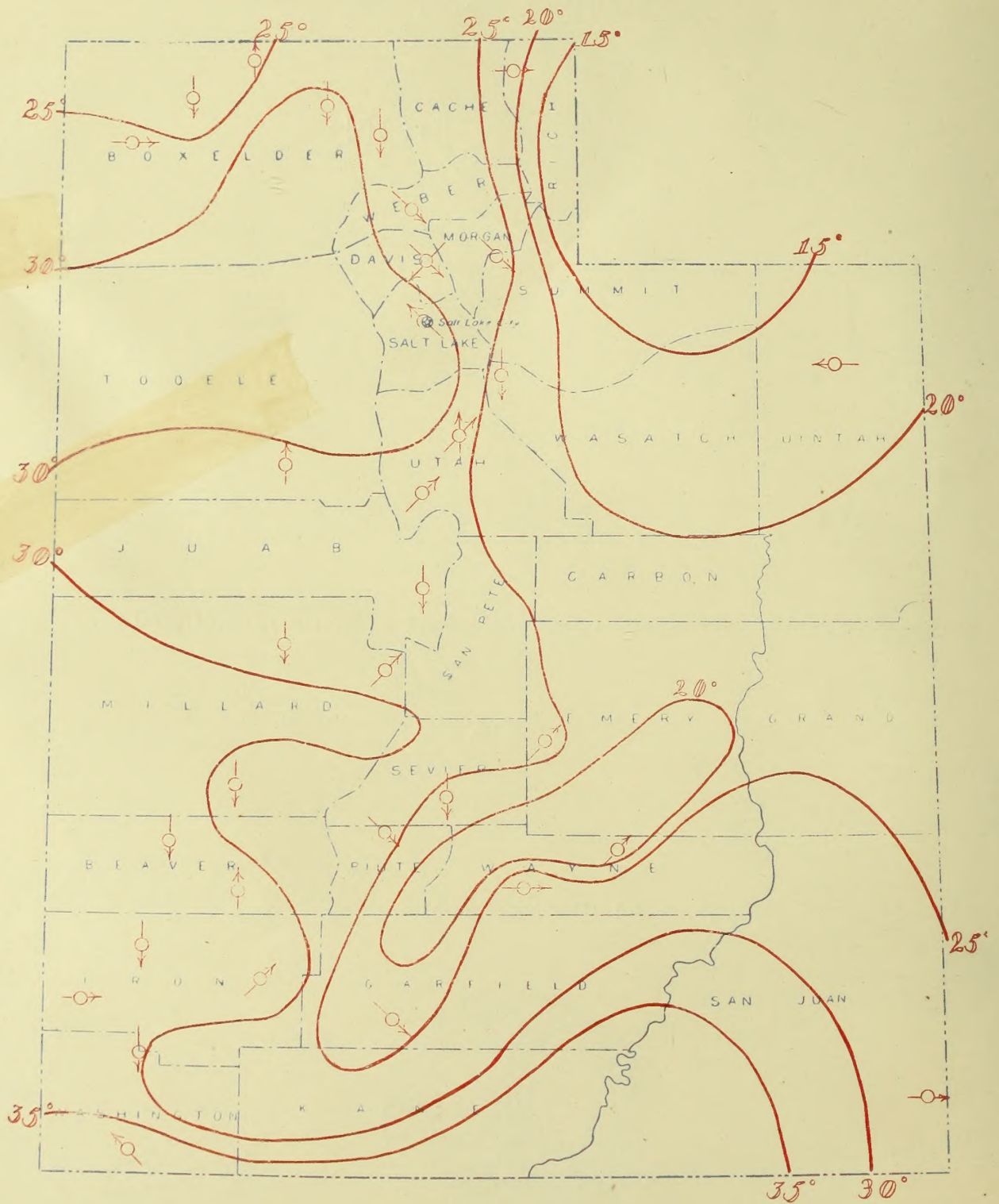
L. H. MURDOCH,
SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE. 0

1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



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JANUARY, 1903.

CLIMATE AND CROPS: UTAH SECTION.

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U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION,

L. H. MURDOCH, Section Director.

SALT LAKE CITY, UTAH.

VOL. V.

SALT LAKE CITY, UTAH.

No. 3.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 56 stations, was 27.0° , or 0.6° above the normal. Stations to the west of the Wasatch range show an excess of temperature, while those to the east show a well marked deficiency. The highest monthly mean was 38.7° at St. George; the lowest, 14.8° at Woodruff. The highest temperature of the month, 66° , occurred at St. George on the 5th; the lowest, 21° below zero, at Woodruff on the 29th. The monthly range for the State was therefore 87° . The greatest daily range for any station was 60° at Scipio on the 28th. The highest temperatures of the month were generally recorded between the 21st and 29th, while the lowest were reached during the first decade.

PRECIPITATION.

The average precipitation, determined from the reports of 58 stations, was 1.40 inches, or 0.62 inch above normal. The excess of precipitation was confined to that portion of the State lying west of the Wasatch range, stations to the east of the range showing a well marked deficiency. The precipitation of the northern section was remarkably heavy and exceeds that for any January since 1890. The greatest monthly amount was 7.72 inches at Huntsville; the least, none, at Cisco and Green River, while Emery, Grover, Monticello and Tropic received only a trace. The average snowfall (unmelted) for the State was 8.5 inches, or 1.7 inches in excess of the normal. Much of the precipitation in the valleys of the northern portion of the State was in the form of rain. Precipitation was quite general over the State on the 1st and 10th and was almost continuous over the northern section after the 19th, while scattered showers occurred over the middle and southern sections during the same period. There was an average of five days with 0.01 inch or more of precipitation.

WEATHER.

There was an average of 15 clear, 6 partly cloudy and 10 cloudy days. Determined from the automatic sunshine record, Salt

Lake City had 47 per cent; Modena, 63 per cent; Grand Junction, Colo., 73 per cent; and Pocatello, Idaho, 39 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 40 per cent of the possible amount. The normal January sunshine at Salt Lake City is 43 per cent of the possible amount.

WIND.

The prevailing direction of the wind was from the north. The total number of miles blown at Salt Lake City was 3,548; at Modena, 6,710; at Grand Junction, Colo., 2,823; and at Pocatello, Idaho, 7,156. The maximum velocity at Salt Lake City was 44 miles from north on 26th; at Modena, 43 miles from south on 28th; at Grand Junction, Colo., 24 miles from southwest on 28th; and at Pocatello, Idaho, 36 miles from southwest on 22d. The normal January wind movement at Salt Lake City is 3,222 miles.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halos, solar.—Mount Nebo, 7.

Thunderstorms.—Huntsville, 22; Morgan, 22.

Coronae, lunar.—Government Creek, 4, 10; Lund, 9; Marysville, 3.

Earthquakes.—Marysville, 10, 26; Pinto, 5; St. George, 3, 14; Scipio, 1.

Halos, lunar.—Henefer, 6-8; Huntsville, 7; Levan, 8; Marysville, 7, 8; Mt. Nebo, 6, 7; Parowan, 7.

Hail.—Black Rock, 10, 28; Giles, 18, 28; Government Creek, 10, 22, 25; Levan, 22; Marysville, 10, 22, 28; Modena, 28; Mt. Nebo, 22.

Fog.—Alpine, 7, 10; Aneth, 26; Black Rock, 26; Government Creek, 13; Henefer, 2; Huntsville, 6; Meadowville, 9, 12-18; Vernal, 9, 13, 26.

Sleet.—Garrison, 28; Grover, 28; Heber, 25, 27, 28; Henefer, 1, 11, 31; Huntsville, 21, 22, 24, 26, 30; Levan, 22; Marysville, 28; Meadowville, 21, 22; Promontory, 21; Tropic, 27.

High winds.—Aneth, 28, 31; Black Rock, 26, 27; Deseret, 22, 26-28; Frisco, 26-28; Garrison, 26, 27; Giles, 27, 28; Government Creek, 26, 27; Green River, 28; Grover, 22, 27, 28; Heber, 27, 28; Henefer, 27, 28; Hite, 28; Lund, 26-28; Meadowville, 3, 6, 19; Moab, 26-28; Modena, 28; Mt. Nebo, 28; Ogden, 28; Pinto, 26-28; St. George, 28; Salt Lake City, 26; Thistle, 27; Tooele, 26, 27.

OBSERVERS' REMARKS.

Aneth.—The month was unusually cold.—H. R. Antes.

Deseret.—A quiet, pleasant month.—S. W. Western.

Emery.—A dry month.—H. C. Wickman.

Farmington.—Heavy snowfall during the month.—Charles Boylin.

Government Creek.—The snowstorm of the latter part of the month was the heaviest that has visited this section in many years.—Walter James.

Heber.—Precipitation occurred daily from the 19th to 29th of of the month.—John Crook.

Henefer.—Very stormy the latter part of the month.—William Brewer.

Huntsville.—The first part of the month was pleasant, but the heavy precipitation of the latter part made the month the wettest on record.—Lars Petersen.

Marysvale.—The month was drier than usual, with frequent high winds. The snow is piling up in the mountains.—G. T. Henry.

Meadowville.—The wettest January in many years.—J. S. Moffat.

Morgan.—The wettest January in many years.—T. R. G. Welch.

Mt. Nebo.—The snowstorm of the 28th was the heaviest that has occurred in many years.—Mrs. Frank Roberts.

Tooele.—The high south wind on the 26th and 27th blew down several trees, but did no serious damage.—I. J. Elkington.

Tropic.—Considerable snow fell in the mountains during the month. There will be an abundance of water for irrigation next season. Stock is wintering well.—E. P. Bolton.

FARMING OPERATIONS AND CROP CONDITIONS DURING JANUARY.

Very little farm work was done during the month. The heavy precipitation gave the ground a good soaking. Fall grain continues in fair condition, and most of it had a good covering of snow at the close of the month. Stock generally continues in fair condition.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF JANUARY.

The snowfall of the month was excessive over the Great Salt Lake and the Sevier Lake watersheds, and deficient over the Green and Colorado rivers watershed. The fall over the Great Salt Lake watershed was remarkably heavy, and exceeds that for any January since 1890.

The depth of snow in the mountains of the State is generally above average, and greater than for several years. High winds during the month caused the snow to drift nicely, and the temperature conditions were favorable for packing.

The amount of snow now in the mountains and its drifted and solid condition assure all sections of the State an abundant supply of water for irrigation throughout the whole of the coming crop season.

PERSONAL AND GENERAL.

The water level of Great Salt Lake was 3 feet 6 inches below the zero of the gage on January 1, and 3 feet 5 inches below on January 15, 1903. On January 1 and 15, 1902, the readings were 1 foot 1 inch, and 1 foot 2 inches below zero, respectively.

The mean relative humidity for the month at Salt Lake City was 73.0 per cent, the lowest reading observed being 39 per cent on the 26th; at Modena, 64.3 per cent, the lowest observed being 21 per cent on the 22d; at Grand Junction, Colo., 72.6 per cent, the lowest observed being 42 per cent on the 30th; and at Pocatello, Idaho, 79.8 per cent, the lowest observed being 49 per cent on the 4th. The normal relative humidity for January at Salt Lake City is 68 per cent.

Quite a number of snowslides occurred in the northern portion of the State during the month. Three men were killed by one which struck the shaft house of the Quincy mine, near Park City, Utah.

Several slight shocks of earthquake are reported from the southwest portion of the State.

Mr. Enoch Farr, Voluntary Observer, Ogden, Utah, was a visitor at the Section Center the latter part of the month.

Comparative Temperature and Precipitation Data for January during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	24.4	68	—19	0.85
1893	26.0	71	—23	0.94
1894	21.9	63	—24	1.18
1895	23.0	60	—25	1.67
1896	28.4	66	—17	0.81
1897	26.1	68	—24	1.53
1898	16.9	69	—34	1.07
1899	27.9	70	—21	1.14
1900	31.6	70	—10	0.43
1901	28.2	64	—26	0.69
1902	26.5	74	—38	0.71
1903	27.0	66	—21	1.40

ERRATA FOR DECEMBER REPORT.

Pages 5 and 6.—Pinto: Mean maximum temperature given as 37.7°, should be 41.7°; mean minimum temperature given as 10.0°, should be 11.1°; mean temperature given as 23.8°, should be 26.4°, making departure from normal —1.0° instead of —3.6°. Pocatello, Idaho: Mean minimum temperature given as 22.6°, should be 22.5°; mean temperature given as 29.5°, should be 29.8°, making departure from normal +3.8° instead of +3.9°.

CLIMATOLOGICAL DATA FOR UTAH, JANUARY, 1903.

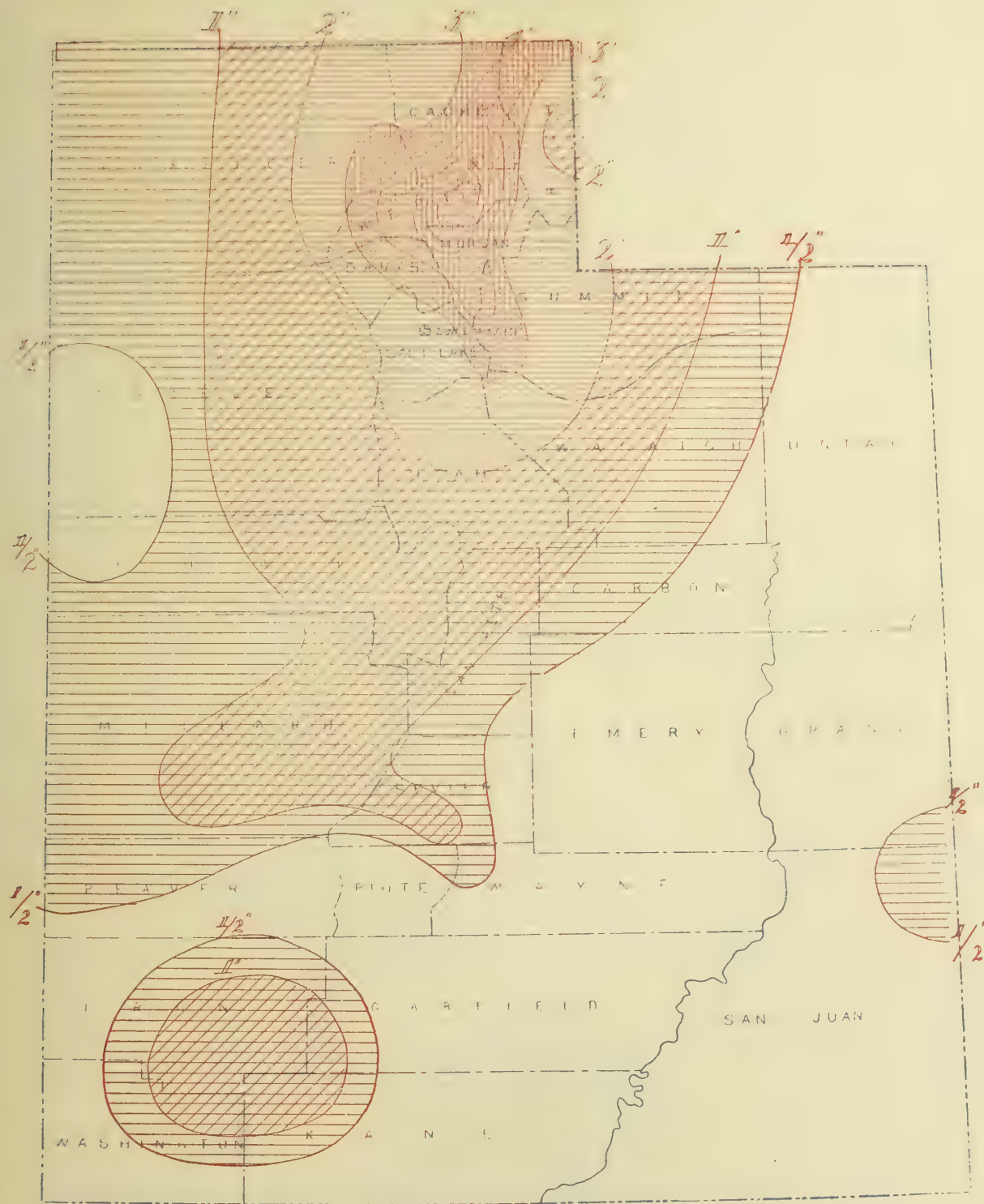
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Observer.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, in inches.	Days with all inch or more.	Number clear days.		Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.
NORTHERN.																				
Alpine.	Utah.	4,900	7																	T. B. Whitby.
Blue creek †.	Box Elder.	4,387	25	31.7	+6.6	50	*25	8	17	32	1.90	+0.93	0.55	0.5	16	13	3	15	n	Agent So. Pacific Co.
Cornine.	Box Elder.	4,210	33	28.0	+3.3	49	25	4	15	32	3.02	+2.35	1.04	13.3	5	11	5	26	n	W. E. Johnson.
Evanston, Wyo.	Uinta.	6,959	22	22.0	+1.5	43	6	10	30	38	2.14	+1.18	0.70	17.0	6	13	10	8	sw	Frank Tucker.
Farmington.	Davis.	4,267	3	20.8	+1.2	52	25	12	*16	23	3.76	+2.34	0.89	25.0	9	13	4	14	ne.	Charles Boylin.
Ft. Duchesne.	Uinta.	5,000	15																	Post Surgeon.
Heber.	Wasatch.	5,606	10	21.2	+2.8	11	*21	6	30	38	2.17	+0.15	0.62	13.2	12	14	6	11	n.	John Crook.
Henefer.	Summit.	5,301	4	25.3	+1.7	50	21	12	30	16	2.91	+1.05	0.75	27.5	11	12	8	11	nw.	William Brewer.
Huntsville.	Weber.	5,100	8																	Lars Petersen.
Kelton.	Box Elder.	4,230	25	22.8	-0.3	42	*23	2	30	31	0.60	-0.03	0.20	31.0	11	9	11	12	n.	Agent So. Pacific Co.
Logan.	Cache.	4,507	12	27.2	+3.0	47	21	5	14	24	2.62	+1.53			9					James Dryden.
Meadowville.	Rich.	6,200	4	23.0	+0.3	40	6	5	30	25	4.10	+3.35	0.90	28.0	9	13	3	15	w.	J. S. Moffat.
Millville.	Cache.	4,818	8																	Fred. Yeates.
Morgan.	Morgan.										4.60									T. R. G. Welch.
Oakley, Idaho.	Cassia.	4,191	10																	John Adams.
Ogden No. I.	Weber.	4,310	2	28.7		50	21	9	14	25	1.77		1.50	16.1	11	14	5	11	nw.	Knock Barr.
Ogden No. II †.	Weber.	4,310	33	32.0	+3.5	50	27	15	14	22	3.86	+2.37	1.30	9.3	9					W. H. Chevers.
Park City - T1.	Summit.	6,840	6	27.1	+1.4	49	6	1	30	34	3.88	+2.10	1.20	35.8	10					J. H. Hance.
Pocatello, Idaho.	Bannock.	4,188	3	28.1	+9.0	48	6	5	17	26	1.77	0.47	0.50	13.2	11	8	11	12	e.	Weather Bureau.
Promontory †.	Box Elder.	4,913	33																	Agent So. Pacific Co.
Salt Lake City.	Salt Lake.	4,300	29	32.0	+4.1	53	27	15	29	26	2.11	+0.67	0.58	7.5	11	10	9	12	se.	Section Center.
Snowville.	Box Elder.	4,300	13	24.6	+0.4	48	7	9	29	40	1.93	+0.77	0.70		8	11	11	9	s.	Joseph Robbins.
Terrace.	Box Elder.	4,550	33	26.4	+3.5	48	25	3	*16	54	0.85	+0.22	0.50	3.5	3	23	0	8	w.	A. W. Davis.
Tooele.	Tooele.	4,900	7	30.7	+1.5	54	24	8	30	24	1.16	+0.73	0.81		7	11	9	8	n.	I. J. Elkington.
Vernal.	Uinta.	5,950	8	18.6	-1.2	48	7	9	1	34	0.39	-0.22	0.27	0.8	5	18	11	2	e.	Richard Veltman.
Weston, Idaho.	Oneida.	4,400	26	26.0	-1.8	46	0	2	30	29	2.36	+1.32	0.60	14.4	11	11	7	13	n.	William Chatterton.
Woodruff.	Rich.	5,500.	6	14.8	-2.5	49	4	21	29	49	1.50		1.20	15.0	2	9	0	22		T. J. Tingey.
Averages.				26.3	+1.8						2.89	+1.55		10.7	9	14	5	12	n.	
MIDDLE.																				
Black Rock.	Millard.	5,802	3	29.6	+2.6	55	*21	13	*29	50	1.11	+0.78	0.91	8.0	2	13	12	6	n.	Willard Burbank.
Callao - T3.	Juab.		1	29.2		54	*13	2	17	40	0.05		0.05		1					E. E. Edwards.
Castle Dale.	Emery.	5,500	4	21.4	-5.4	49	4	6	15	46	0.08	-0.07	0.05	0.8	2	17	14	6		James Jeffs.
Cisco - T1.	Grand.	4,385	11	22.6	-2.3	50	29	2	*16	34	0.60	-0.68	0.60	0.0	0	25	1	5		H. T. Matthews.
Deseret.	Millard.	4,541	9	20.0	+2.0	56	21	8	30	44	0.94	+0.56	0.85	1.0	2	14	6	11	n.	S. W. Western.
Emery.	Emery.	6,260	3	26.2		40	*4	2	1	40	T.	0.05	T.	0.0	0	5	14	12	sw.	H. C. Wickman.
Fillmore.	Millard.	5,100	13	33.5	+1.5	60	24	2	30	40	1.44	+0.29	1.20		3					J. J. Starley.
Garrison.	Millard.										0.66			11.30						E. M. Smith.
Gov't Creek.	Tooele.	5,277	3	29.2		48	*6	1	29	26	1.43	+0.87	0.95	2.7	8	16	8	7	s.	Walter James.
Grand Junction, Colo.	Mesa.	4,008	12	23.8	-3.2	50	28	1	1	31	0.15	-0.46	0.00	1.0	5	12	13	6	e.	Weather Bureau.
Green River.	Emery.	4,686	6	20.2	-6.8	45	24	12	1	41	0.60	0.14	0.00	0.0	0	10	4	11		J. T. Farrer, Jr.
Hapah.	Tooele.		29	22		65	6	-15	31	57	0.25	0.25	2.5	1	16	1	11			Owen Sheridan.
Levan.	Juab.	5,010	13	26.0	+2.1	45	27	6	30	29	1.61	+0.30	0.68	11.8	7	18	2	11	n.	William Brown.
Manti.	San Pete.	5,575	9	27.8	+2.2	50	*25	5	15	40	0.73	0.30	0.45	T.	4	10	17	16		W. M. Harmon.
Mount Nebo.	Utah.	4,050	2	28.1		58	24	5	15	45	1.57	0.70		7.0	4	17	3	11	sw	Mrs. Frank Roberts.
Mount Pleasant.	San Pete.	5,859	11	27.2	-0.6	50	27	0	28	39	1.24	+0.10	0.60	11.0	4	12	19	0		Web Greene.
Provo.	Utah.	4,532	11	29.9	+3.3	58	27	1	30	42	2.65	+1.65	1.05	8.0	12	14	8	9	s.	Caleb Tanner.
Richfield.	Sevier.	5,323	13	30.3	+4.6	57	24	3	*28	17	6.60	-0.04	0.10		3	14	4	13		J. M. Lauritzen.
Scipio.	Millard.	5,260	8	29.6	+3.2	57	*24	-10	28	60	1.51	+0.24	0.97		6	9	6	16	sw.	Thomas Memmott.
Soldier Summit.	Utah.	7,174	11																	Ag't Rio Grande R. R.
Thistle.	Utah.	5,075	11	21.8	-4.0	50	*9	2	*27	38					17	0	14			E. T. Olson.
Wellington - T6.	Carbon.	5,549	4	23.8		50	4	-4	*15	15	0.52	+0.28	0.22	3.0	3	7	16	3		E. E. Branch.
Averages.				27.1	+0.4						6.86	+0.25		4.5	3	15	7	9	sw.	
SOUTHERN.																				
Aneth.	San Juan.	4,800	3	26.4	-6.8	53	28	-4	1	34	0.11	-0.15	0.66	0.2	2	11	12	5	w.	H. R. Antes.
Coyote - T4.	Garfield.		2	19.8		49	21	-8	18	44	0.01		0.01	0.1	1	15	6	12		H. J. McCullough.
Escalante.	Garfield.	5,700	3	23.0		51	12	-4	*15	41	1.50		3.60	15.0	1	12	6	13	w.	W. G. Bleak.
Frisco.	Beaver.	7,318	9	32.3	+0.6	62	6	2	20	32	0.75	+0.37	0.58		2	18	3	10	n.	S. N. Slaughter.
Giles.	Wayne.	4,000	8	18.8	-7.0	51	27	10	1	38	0.10	0.31	0.10		1	19	5	7	sw.	J. C. White.
Grover (near).	Wayne.	5,800	7	29.2	+2.9	55	26	5	15	35	T.	0.85	T.	T.	0	12	11	5	w.	Henry Cullum.
Hite.	Garfield.	3,000	4	34.4		60	*27	13	1	31	0.30		0.30		1	17	10	4		F. W. Gibbons.
Kanab.	Kane.	4,925	3			56	24				16.80		0.19			16	1	10		Z. K. Judd.
La Sal.	San Juan.	7,000	3	25.0		47	6	4	1	30	0.60		0.60	6.0	1	14	11	6		Mrs. G. W. Carpenter.
Loa.	Wayne.	7,600	11	15.2	-7.2	43	*6	19	29	39	0.60	+0.15	0.10	6.0	2	22	3	6		H. M. Hansen.
Lund - T4.	Iron.	5,092	3	31.2		53	21	5	30	39	0.25		0.10	2.0	3	11	10	13	n.	B. R. Transeau.
Marysville (near).	Piute.	6,180	4	28.9		52	21	1	13	39	0.40		0.28	1.5	4	10	6	15	nw.	G. T. Henry.
Minersville - T2.	Beaver.	5,070	6	33.3	+4.6	65	*19	7	29	54	0.14	0.61	0.14	T.	1	10	18	0	s.	R. W. Dotson.
Moab.	Grand.	4,000	14	27.0	-2.4	59	28	3	1	31	0.12	-0.51	0.12	T.	1	21	2	8		Henry Crouse.
Modena.	Iron.	5,379	3	32.1		58	6	7	30	38	0.12		0.18	1.9	2	18	5	8	w.	Weather Bureau.
Monticello.	San Juan.	7,280	1	26.2		44	27	1	30	31	1.10	+0.6	0.55	10.0	4	13	7	11		John Bailey.
Parowan.	Iron.	5,670	12	30.9	+2.5	57	24	7	30	31	1.10	+0.6	0.55	10.0	4	13	7	11	sw.	James Connell.
Pinto - T4.	Washington.	5,907	6	30.0	+2.9	61	8	3	30	8	0.93	+0.68	0.74		3	13	4	10	n.	J. H. Harrison.
Plateau.	Sevier.	7,600	1	24.0		50	21	9	17	15	1.00		0.20							

[illegible]

NOTE--Boldface figures indicate temperatures below zero.

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TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



LESS THAN $\frac{1}{2}$ $\frac{1}{2}$ TO 1 1 TO 2 2 TO 3 OVER 3

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1903.

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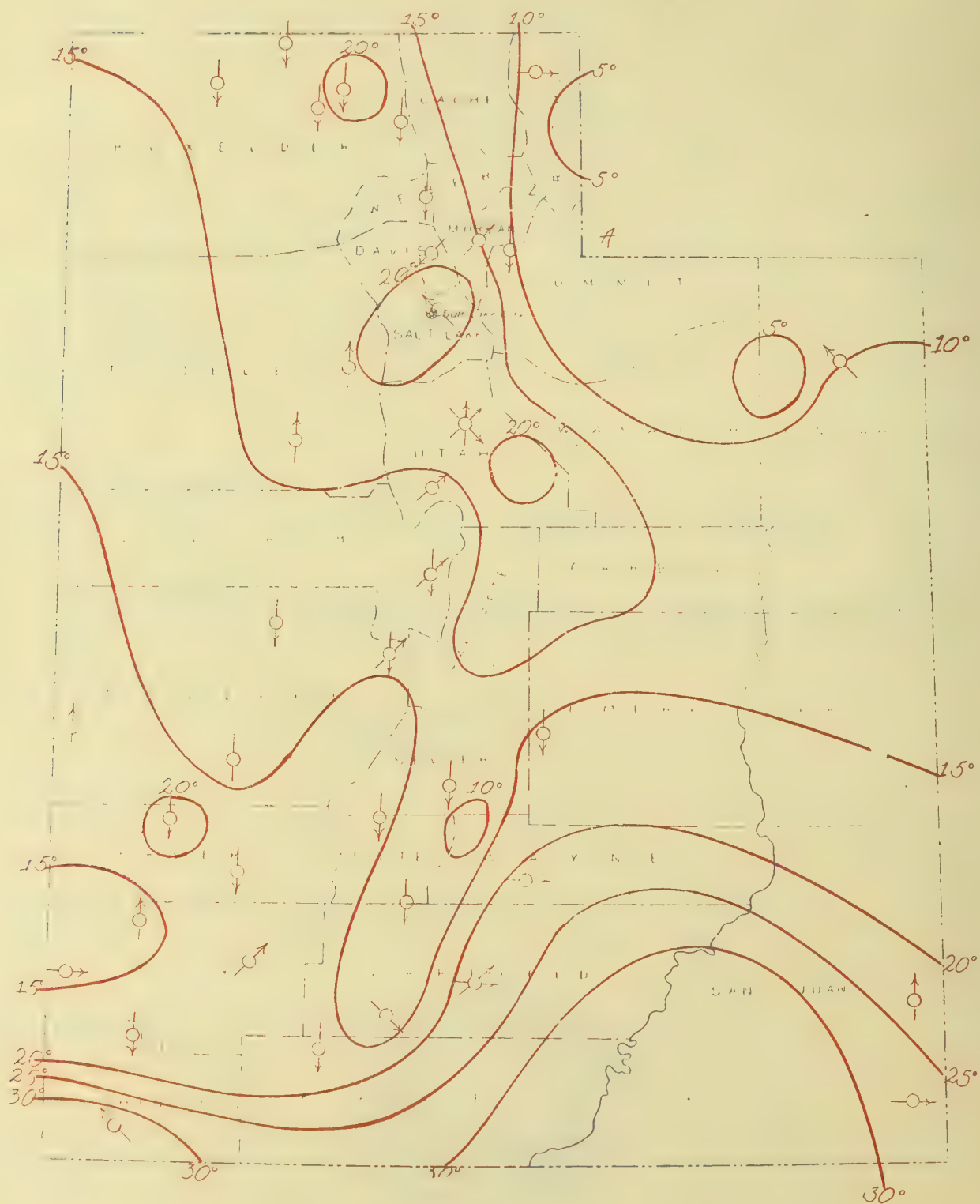
L. H. MURDOCH,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



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CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

L. H. MURDOCH, Section Director.

SALT LAKE CITY, UTAH.

VOL. V.

SALT LAKE CITY, UTAH.

No. 4.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 56 stations, was 16.6° , or 12.7° below the normal. The month was not only the coldest February, but one of the coldest months on record for the State. The highest monthly mean was 32.4° at Hite; the lowest, 1.6° at Ft. Duchesne. The highest temperature of the month, 67° , occurred at St. George on the 24th; the lowest, 39° below zero, at Henefer on the 14th and 15th. The monthly range for the State was therefore 106° . The greatest daily range for any station was 70° at Loa on the 3d. The highest temperatures of the month were generally recorded between the 10th and 12th, and the 22d and 24th; the lowest, on the 14th and 15th.

PRECIPITATION.

The average precipitation, determined from the reports of 60 stations, was 0.75 inch, or 0.46 inch below normal. The greatest monthly amount was 1.66 inches at Frisco; the least, none at Loa and Wellington. The average snowfall (unmelted) for the State was 7.4 inches, or 1.0 inch below normal. The stormy periods were from the 1st to 12th, and from the 24th to 28th. There was an average of four days with 0.01 inch or more of precipitation.

WEATHER.

There was an average of 17 clear, 5 partly cloudy and 6 cloudy days. Determined from the automatic sunshine record, Salt Lake City had 73 per cent; Modena, 76 per cent; Grand Junction, Colo., 74 per cent; and Pocatello, Idaho, 61 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 62 per cent of the possible amount. The normal February sunshine at Salt Lake City is 44 per cent of the possible amount.

WIND.

The prevailing direction of the wind was from the north. The total number of miles blown at Salt Lake City was 3,018;

at Modena, 4,503; at Grand Junction, Colo., 2,265; and at Pocatello, Idaho, 5,899. The maximum velocity at Salt Lake City was 27 miles from northwest on 11th; at Modena, 27 miles from southwest on 11th; at Grand Junction, Colo., 17 miles from northwest on 12th; and at Pocatello, Idaho, 34 miles from southwest on 10th. The normal February wind movement at Salt Lake City is 3,255 miles.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Sleet.—Green River, 27.

Coronae, lunar.—Government Creek, 8; Lund, 5; Marysvale, 10.

Fog.—Black Rock, 6, 9, 10, 20; Deseret, 1, 25, 26; Salt Lake City, 21.

Halos, lunar.—Government Creek, 7; Huntsville, 7; Marysvale, 7; Salt Lake City, 7.

High winds.—Aneth, 15; Emery, 27; Farmington, 13; Garrison, 8; Heber, 11; Henefer, 23; Levan, 11; Ft. Duchesne, 12; Meadowville, 10; Modena, 11; Ogden, 12, 16; Salt Lake City, 11; Vernal, 12.

Halos, solar.—Emery, 4; Frisco, 6; Government Creek, 3, 6, 12; Henefer, 2, 6; Levan, 6, 27; Lund 3, 6, 13, 27; Marysvale, 3, 12; Meadowville, 5, 12, 16; Morgan, 2; Mt. Nebo, 1, 6, 22; Pinto, 6.

OBSERVERS' REMARKS.

Alpine.—A very cold month.—T. B. Whitby.

Aneth.—An unusually cold month. Stock suffered greatly from shortage of feed and lack of shelter.—H. R. Antes.

Black Rock.—The coldest and wettest month since the winter of 1897-98.—Willard Burbank.

Deseret.—The coldest month on record. The ground was covered with snow throughout the month. Cattle and sheep suffered as a result of the severe weather.—S. W. Western.

Frisco.—Sheep suffered during the month as a result of the cold weather and shortage of feed.—S. N. Slaughter.

Government Creek.—An extremely cold and disagreeable month. Many cattle and sheep perished on the ranges.—Walter James.

Green River.—The coldest and wettest February in 23 years.—John F. Farrer.

Grover.—A disagreeable month, and very cold during the first half.—Henry Cullum.

Heber.—The coldest month on record, there being 17 days with temperature below zero.—John Crook.

Henefer.—The coldest February in 30 years.—William Brewer.

Huntsville.—An extremely cold and dry month.—Lars Petersen.

Lund.—The loss of sheep on the desert during the cold weather has not been greater than usual.—B. R. Transeau.

Marysvale.—The snow in the mountains is deeper than for several years past. There will be plenty of water for irrigation.—G. T. Henry.

Meadowville.—The coldest month on record. There was two feet of snow on the ground at the close of the month. Feed is very scarce, and cattle are thin.—J. S. Moffat.

Minersville.—The wettest February for five or six years.—R. W. Dotson.

Morgan.—The coldest February on record, there being 17 days with temperatures ranging from 1° to 31° below zero.—T. R. G. Welch.

Mt. Nebo.—The cold spell during February is the most extended one on record. Snow remained on the ground throughout the month.—Mrs. Frank Roberts.

Pinto.—A very cold month. There is no feed on the ranges, and cattle are dying from exposure and starvation.—J. H. Harrison.

Ranch.—A very cold month. The fields are covered by about 15 inches of snow.—J. W. Seaman.

Vernal.—The coldest February on record.—Richard Veltman.

FARMING OPERATIONS AND CROP CONDITIONS DURING FEBRUARY.

The continued cold weather kept the ground frost-locked and prevented any farm work during the month. Fields were generally well covered with snow throughout the month, and it is therefore not probable that any damage was done to fall grain by the low temperatures. The fruit crop also is thought to have passed through the month without suffering damage. The small amount of feed which remained on the ranges was covered with snow, and reports indicate that a large number of cattle and sheep perished from starvation and exposure.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF FEBRUARY.

The precipitation of the month was deficient, except in the extreme eastern and western portions of the State. Practically all of it was in the form of snow.

The month was one of the coldest on record, and there was little or no loss by melting. The snow continued to drift and pack nicely. As stated in the January bulletin, all sections of the State will have an abundant supply of water for irrigation throughout the whole of the coming crop season.

IDAHO SNOWFALL BULLETIN FOR FEBRUARY.

February has contributed little to the supply of snow, the month having been deficient in precipitation over the entire State. However, while great extremes of cold have not been reached, the temperature has been uniformly lower than the average, so that, while there has been a decrease in the depth of snow in the valleys, the amount at higher elevations averages about the same as at the close of January. What little melting has taken place has only served to settle and pack the snow, rather than to diminish its mass, so that in most sections the mountain gulches are well filled with hard, icy snow. In some sections, high winds

have formed drifts of great depth, which will further contribute to the uniformity of the water-flow.

The outlook at the close of February gives promise of an abundance of water in the spring, and an ample supply throughout the summer.

PERSONAL AND GENERAL.

The water level of Great Salt Lake was 3 feet 4 inches below the zero of the gage on February 1, and 3 feet 2 inches below on February 15, 1903. On February 1 and 15, 1902, the readings were 12 inches, and 9 inches below zero, respectively.

The mean relative humidity for the month at Salt Lake City was 73.8 per cent, the lowest reading observed being 43 per cent on the 13th; at Modena, 72.0 per cent, the lowest observed being 50 per cent on the 18th; at Grand Junction, Colo., 76.7 per cent, the lowest observed being 41 per cent on the 28th; and at Pocatello, Idaho, 77.2 per cent, the lowest observed being 43 per cent on the 19th. The normal relative humidity for February at Salt Lake City is 65 per cent.

Mr. I. J. Elkington, Voluntary Observer, Tooele, Utah, states that a very bright meteor passed over his station, traveling from southeast to northwest, at 5 a. m. on the 14th. It was followed by a rumbling noise like thunder, terminating in a loud explosion which was distinctly heard as far away as Salt Lake City.

Mr. George T. Henry, Voluntary Observer, Marysville, Utah, reports that a brilliant meteor was observed by him at 8:40 p. m. on the 19th. The course in this case was from the zenith to the eastern horizon.

Comparative Temperature and Precipitation Data for February during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	32.4	73	—34	0.77
1893	26.6	70	—32	1.35
1894	20.9	68	—34	1.11
1895	25.5	74	—33	1.25
1896	31.0	74	—16	0.46
1897	27.0	63	—21	2.35
1898	29.1	79	—21	0.47
1899	28.8	77	—50	1.73
1900	32.2	73	—24	0.57
1901	31.0	75	—26	1.90
1902	34.1	74	—20	0.87
1903	16.6	67	—39	0.75

ERRATA FOR JANUARY REPORT.

Pages 5 and 8.—Callao: Total precipitation given as .05 inch, should be .50 inch.

CLIMATOLOGICAL DATA FOR UTAH, FEBRUARY, 1903.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, in inches.	Days with at least one inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine.	Utah.	4,900	7							0.66	1.12	0.21	1.8	1	24	1	3		T.B. Whitby.	
Blue Creek.	Box Elder.	4,387	25	23.6	-0.7	47	24	11	11	0.02	0.77	0.01	0.2	2	20	1	7	n.	Agent So. Pacific Co.	
Combe.	Box Elder.	4,240	33	-0.7	-13.4	42	24	14	14	0.10	1.15	0.05	1.0	4	20	0	8	n.	W.E. Johnson.	
Evansville, Wyo.	Uinta.	6,959	7	9.1	-10.0	40	22	31	14	0.80	0.36	0.36	0.7	6	18	5	8	sw.	Frank Tucker.	
Farrington.	Davis.	1,267	3	19.1	-14.7	40	11	9	15	0.86	1.19	0.55	8.6	5	16	6	6	ne.	Charles Boylin.	
Ft. Duchesne—T 5.	Uintah.	5,600	15	1.6	-17.6	34	*25	35	15	53	0.80	+0.36	0.60	8.0	2				Post Surgeon.	
Heber.	Wasatch.	5,600	10	10.7	-12.1	40	24	30	15	18	0.70	-1.56	0.30		4	18	6	4		John Crook.
Henefer—T 1.	Summit.	5,301	4	9.0	-19.0	47	10	30	*11	46	1.23	-0.99	0.05	13.6	4	15	7	4	n.	William Brewer.
Huntsville.	Weber.	5,100	8							0.61	-1.77	0.56	6.5	2	14	8	6		Lars Petersen.	
Kelton.	Box Elder.	4,230	25							0.30	-0.24	0.20	3.0	2	18	0	10	n.	Agent So. Pacific Co.	
Logan.	CACHE.	4,207	12	13.3	12.4	39	10	17	14	23	0.33	-0.83	0.15	3					James Dryden.	
Meadowville.	Rich.	6,200	4	6.4	-19.8	36	*23	30	14	43	0.60	-0.91	0.40	10.0	3	19	3	6	w.	J.S. Moffat.
Millville.	CACHE.	4,848	8							0.22	-0.97	0.17		2					Fred. Yeates.	
Morgan.	Morgan.			12.3		48	10	31	15	45	0.86		0.63	9.5	3	17	4	7	sw.	T.R.G. Welch.
Oakley, Idaho.	Cassia.	4,191	10	20.0	-10.5	47	23	-11	14	35	T	-0.55	T.	0	17	5	6	8.		John Adams.
Ogden No. 1.	Weber.	4,310	2	18.4		38	11	9	14	25	0.53	0.37	7.8	2	21	1	6	e.		Enoch Farr.
Ogden No. II + 4.	Weber.	4,316	33	21.9	-11.1	45	26	-3	15	27	0.90	-0.66	0.65	9.0	3				n.	W.H. Hevers.
Park City.	Summit.	6,846	6	17.0	-11.0	42	22	-13	14	30	1.34	-0.38	0.60	13.1	8					J.H. Hance.
Pocatello, Idaho.	Benewah.	4,488	3	17.3	-5.7	40	10	-12	15	33	0.18	-1.67	0.15	2.3	3	12	14	2	e.	Weather Bureau.
Promontory + 4.	Box Elder.	4,913	33							0.56	-0.31	0.46	5.0	2	9	19	0	n.	Agent So. Pacific Co.	
Salt Lake City.	Salt Lake.	4,366	29	20.0	-12.9	42	10	-4	14	23	0.82	-0.46	0.62	8.8	9	16	6	6	se.	Section Center.
Snowville.	Box Elder.	4,360	13	12.7	-14.3	38	*22	-22	14	44	0.05	-0.84	0.03	0.5	2	15	10	3	n.	Joseph Robbins.
Terrace.	Box Elder.	4,550	33	12.9	-16.9	41	24	-19	14	35	0.50	+0.11	0.30	5.0	2	23	5	0		A.W. Davis.
Tooele.	Tooele.	4,900	7	20.3	-12.7	54	10	-5	14	39	1.05	+0.68	0.45		6	18	3	7	8.	I.J. Elkington.
Vernal.	Uintah.	5,050	8	10.0	-14.5	39	23	25	15	49	0.96	+0.34	0.48	9.7	5	20	6	2	se.	Richard Veltman.
Weston, Idaho.	Oneida.	4,460	5	11.6	-14.0	40	24	-25	14	26	1.0	-0.84	0.07	1.0	3	18	0	10	sw.	William Chatterton.
Woodruff—T 3.	Rich.	6,500	6	2.6	-17.0	42	*10	-36	7	18	0.05	-1.08	0.05	0.5	1	18	0	10		T.J. Tingey.
Averages.				13.9	-12.9						0.64	0.55		6.9	3	18	4	6	n.	
MIDDLE.																				
Black Rock.	Millard.	5,802	3	11.2	-12.8	47	12	-24	1	40	1.30	+0.48	0.43	13.0	7	19	3	6	n	Willard Burbank.
Callao.	Juab.		1																	E.E. Edwards.
Castle Dale.	Emery.	5,500	4	14.0	-17.0	50	12	23	7	52	0.28	-0.24	0.28	2.8	1	18	10	0		James Jeffs.
Cisco.	Grand.	4,385	11	13.1	-7.2	28	*24	22	15	38	1.35	+0.72	0.50	13.5	7	16	1	11		H.T. Matthews.
Deseret.	Millard.	4,541	9	16.2	-20.8	41	11	28	15	43	1.30	+0.47	0.50	13.0	4	20	0	8	n.	S.W. Western.
Emery.	Emery.	6,260	3	19.2	-11.7	46	*11	-11	4	38	0.40		0.20	4.0	2	7	9	12	n.	H.C. Wickman.
Fillmore.	Millard.	5,100	13	16.6	-13.0	53	23	-14	15	40	1.26	-0.6	0.31							J.J. Starley.
Garrison.	Millard.			16.8		47	11	-18	5	38	0.60		0.44	10.0	3	18	5	5	s.	E.M. Smith.
Gov't Creek.	Tooele.	5,277	3	15.0	-17.8	46	23	-15	14	32	1.10	-0.12	0.50	11.0	5	18	4	6	s.	Walter James.
Grand Junction, Colo.	Mesa.	4,606	12	16.3	-16.0	40	21	-15	7	39	1.05	+0.46	0.41	14.0	7	14	9	5	nw.	Weather Bureau.
Green River.	Emery.	4,080	6	13.9	-21.0	50	*27	-23	14	01	0.55	-0.11	0.35	5.5	3	17	3	8		J.T. Farrer, Jr.
Hapah.	Tooele.			14.8		45	10	-32	14	66	0.88		0.40	8.8	5	17	0	11		Owen Sheridan.
Lexan.	Juab.	5,010	13	14.0	-13.9	45	23	-15	15	30	0.98	-0.55	0.32	9.8	5	18	7	3	sw	William Brown.
Manti—T 2.	San Pete.	5,575	9	16.2	-11.4	45	*12	-16	15	41	1.18	-0.14	0.50		5	14	7	1		W.M. Harmon.
Mount Nebo.	Utah.	4,650	2	18.0		44	11	-15	15	34	1.50		0.50	12.3	8	18	4	6	sw.	Mrs. Frank Roberts.
Mount Pleasant.	San Pete.	5,859	11	15.8	-11.8	51	23	-15	14	35	1.10	-0.88	0.50	11.0	3	14	13	1		Web. Greene.
Provo.	Utah.	4,532	11	17.4	-13.0	49	11	-18	15	37	0.65	-0.72	0.19	7.2	9	17	7	4	sw.	Caleb Tanner.
Richfield.	Sevier.	5,323	13																	J.M. Lauritzen.
Scipio.	Millard.	5,260	8	13.4	-18.0	48	24	-29	14	51	0.86	-0.69	0.25	3.0	8	12	11	5	sw.	Thomas Memmott.
Soldier Summit.	Utah.	7,474	11																	Ag't Rio Grande R.R.
Thistle.	Utah.	5,675	11	22.2	-10.9	44	*23	-8	4	35										E.T. Olson.
Wellington—T 4.	Carbon.	5,540	4	16.6	-10.9	45	23	-21	4	50	0.00	0.70	0.00	0.0	0	14	7	5		E.E. Branch.
Averages.				15.7	-12.5						0.80	-0.32		7.7	5	16	6	6	sw.	
SOUTHERN.																				
Aneth.	San Juan.	4,800	3	27.2	-11.5	52	23	-2	7	36	0.50	0.02	0.16	1.0	4	15	9	4	w.	H.R. Antes.
Coyote.	Garfield.		2	14.0		48	23	-24	14	48	0.03		0.03	0.3	1	20	2	6	n.	H.J. McCullough.
Escalante.	Garfield.	5,700	3	20.2		52	1	-11	16	46	0.50		0.30	5.9	2	18	6	4	sw.	W.G. Bleak.
Frisco.	Beaver.	7,318	9	20.9	-13.2	51	22	-6	13	32	1.66	+1.10	0.80		3	17	4	5	n.	S.N. Slaughter.
Giles.	Wayne.	4,000	8	12.9		42	24	-18	*12	38	0.42		0.25	4.8	3	18	8	2	sw.	J.C. White.
Grover (near).	Wayne.	5,800	7	24.0	-5.8	55	*12	-5	15	12	0.40	-0.19	0.20	4.0	2	15	5	8	w.	Henry Cullum.
Ilite.	Garfield.	3,000	4	32.4	-12.2	58	23	11	*6	41	0.24		0.10	3.0	3	18	4	6		F.W. Gibbons.
Kanab—T 5.	Kane.	4,925	3	27.2		52	23	0	6	35	1.24		1.24	8.0	1	17	1	4		Z.K. Judd.
La Sal.	San Juan.	7,000	3	17.2	-14.8	49	23	-12	12	33	0.90		0.60	9.0	2	15	11	2		Mrs. G.W. Carpenter.
Loa.	Wayne.	7,000	11	7.2	-17.5	39	22	-35	3	70	0.06	-0.57	0.00	0.0	0	23	0	5		H.M. Hansen.
Lund.	Iron.	5,092	3	12.1	-19.2	43	*11	-30	4	44	0.36	-0.68	0.21	6.5	5	14	9	5	n.	B.R. Transeau.
Marysvale (near).	Piute.	6,180	4	17.9		50	*11	-9	4	44	0.61	+0.04	0.50	14.0	3	15	0	12	n.	G.T. Henry.
Minersville.	Beaver.	5,070	6	16.5	-16.8	47	21	-9	13	39	0.90	-0.27	0.40	8.0	5	18	6	4		R.W. Dotson.
Moab.	Grand.	4,300	14	24.2	-11.4	50	23	-7	4	38	0.85		0.52	0.1	6	20	1	7	w.	Henry Crouse.
Modena.	Iron.	5,479	3	15.0		48	23	-7	4	38	0.05		0.24		7	17	0	11	s.	Weather Bureau.
Monticello—T 2.	San Juan.	7,280	1	22.6		48	23	-9	7	27	0.77	-0.60	0.27	8.0	7	16	7	5	sw.	John Bailey.
Parowan.	Iron.	5,970	12	10.8	-11.2	51	*22	-16	7	55	1.60	-0.28	0.85	15.8	5	17	3	8	n.	James Connell.
Pinto.	Washington.	5,967	6	18.1	-13.2	49	26	4	53	1.22		0.37	15.5	9	17	4	7	n.	J.H. Harrison.	
Plateau.	Sevier.	7,000	1	14.5		48	19	0	19	4	1.11		0.60		4	19	3	6	n.	W.H. Schock.
Ranch.	Kane.	6,700	2	17.0		50	9		*13	43	0.26	0.66	0.15	5.5	3	23	3	2	se.	J.W. Seaman.
St. George.	Washington.	2,880	17	31.7	-9.1	67	21	5	23	3	0.95	-0.19	0.95	11.5	1	14	4	10	nw.	J.G. Bleak.
Tropic—T 5.	Garfield.	7,000	6	13.8	-15.7	49	23	-32	3	53										E.P. Bolton.
Virgin.	Washington.	3,100																		Marion Bradshaw.
Averages.				19.7	-12.3						0.74	0.30		7.6	5	18	4	6	n.	
State averages.				16.6	-12.7						0.75	0.16		7.4	4	17	5	6	n.	

* Also on subsequent dates.

+ Temperature data from 7 a. m., 2 p. m., and 9 p. m. readings.

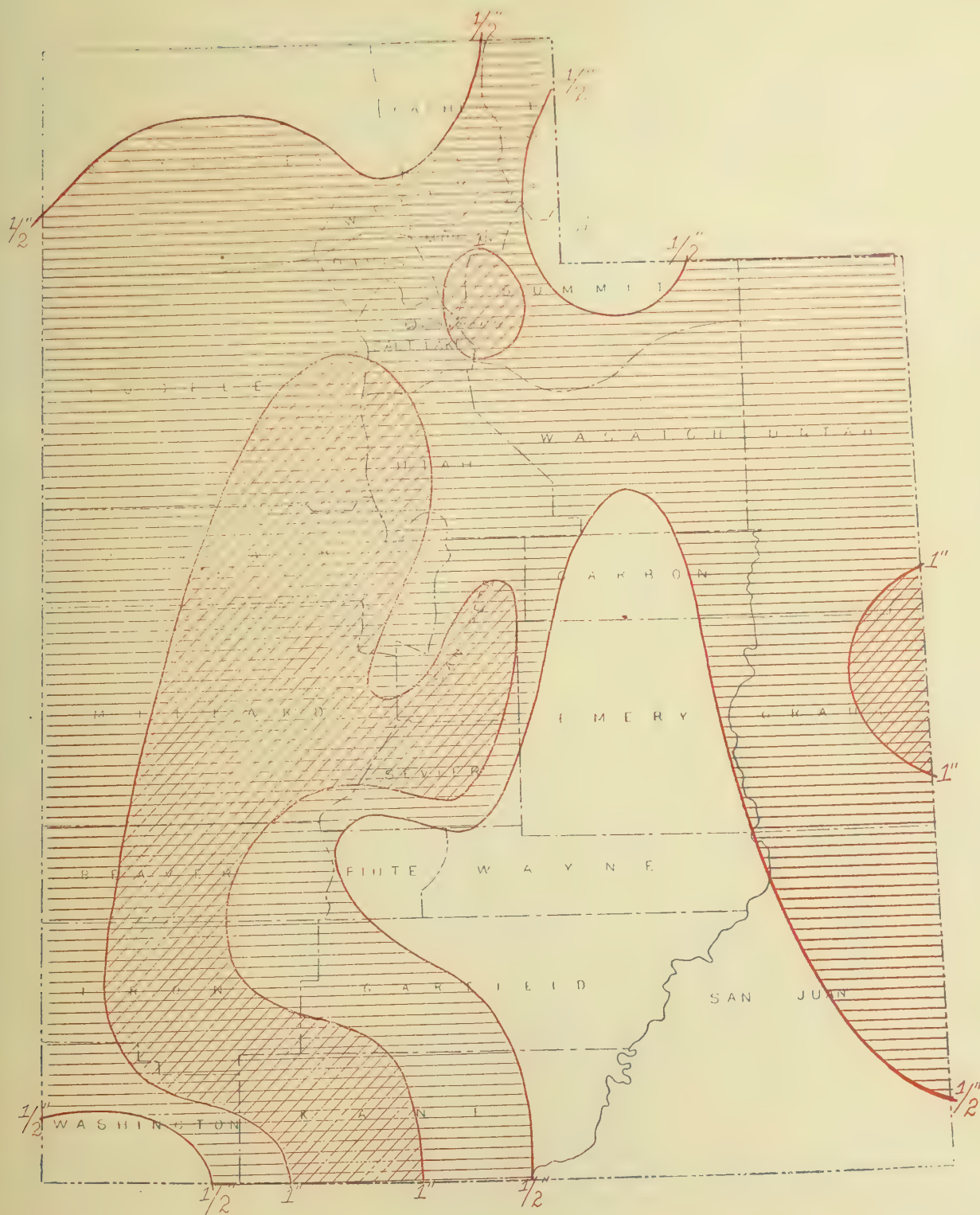
Record incomplete.

* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m., and 9 p. m. readings.

All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations that have normals based upon ten or more years record. † Thermometers not supplied by U. S. Weather Bureau. § Received too late to be included in averages.

MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, FEBRUARY, 1903.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



LESS THAN $\frac{1}{2}$ $\frac{1}{2}$ TO 1 1 TO 2 2 TO 3 OVER 3

DAILY PRECIPITATION FOR UTAH, FEBRUARY, 1903.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

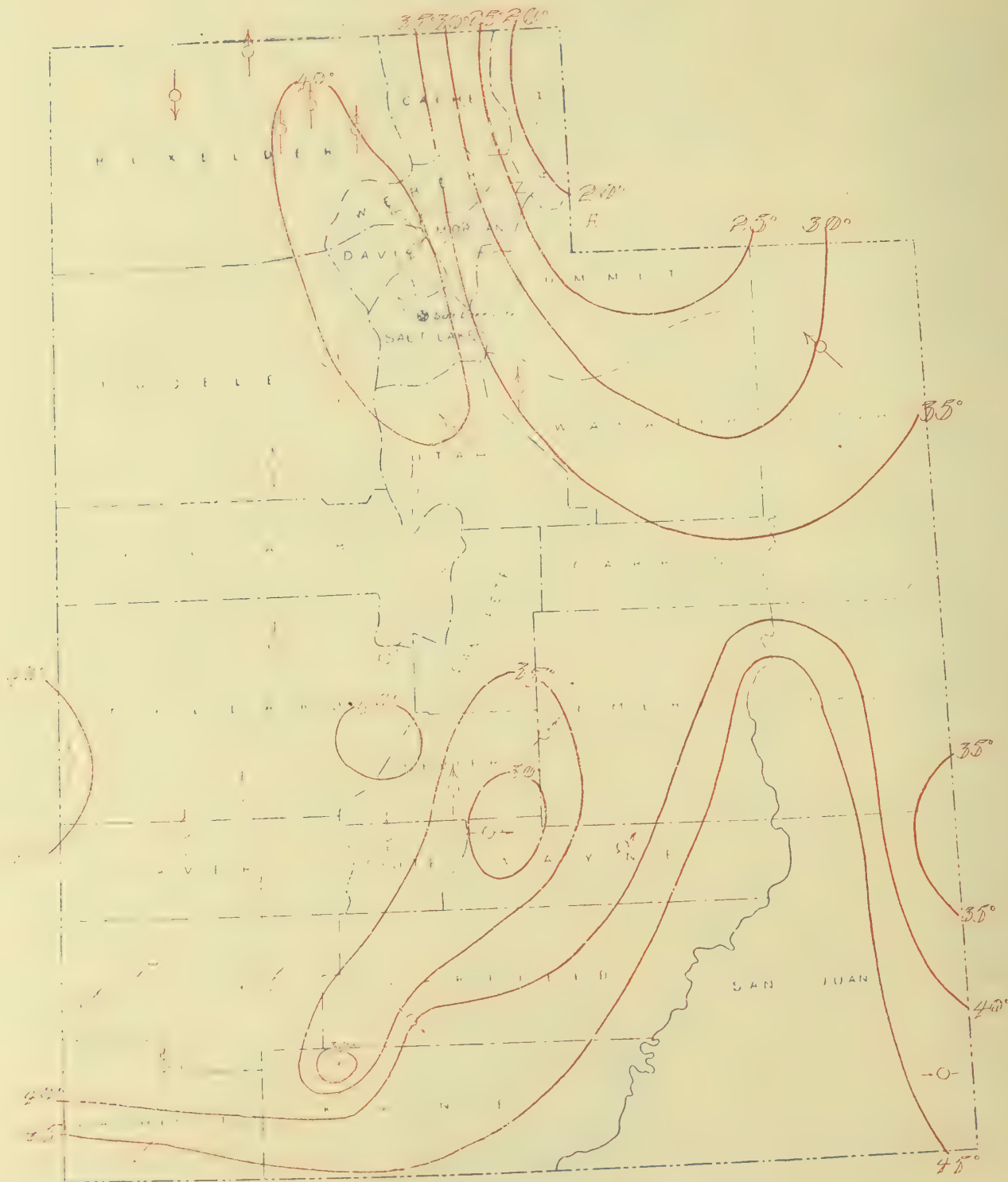
BY

L. H. MURDOCH,
SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION,

L. H. MURDOCH, Section Director.

SALT LAKE CITY, UTAH.

VOL. V.

SALT LAKE CITY, UTAH.

No. 5.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 37.3° , or practically normal. The highest monthly mean was 48.7° at St. George; the lowest, 19.8° at Woodruff. The highest temperature of the month, 80° , occurred at St. George on the 30th; the lowest, 32° below zero, at Woodruff on the 1st. The monthly range for the State was therefore 112° . The greatest daily range for any station was 59° at Woodruff on the 8th. The highest temperatures of the month were generally recorded during the last four days; the lowest, on the 1st.

PRECIPITATION.

The average precipitation, determined from the reports of 58 stations, was 1.19 inches, or 0.34 inch below normal. The deficiency occurred over the northern and middle sections, while the southern section had a slight excess. The greatest monthly amount was 5.55 inches at Kanab; the least, 0.02 inch at Green River. The average snowfall (unmelted) was 7.4 inches, or practically the normal amount. The stormy periods were from the 3d to 9th, 15th to 19th and 25th to 31st. There was an average of five days with 0.01 inch or more of precipitation.

WEATHER.

There was an average of 12 clear, 9 partly cloudy and 10 cloudy days. Determined from the automatic sunshine record, Salt Lake City had 54 per cent; Modena, 55 per cent; Grand Junction, Colo., 60 per cent; and Pocatello, Idaho, 44 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 51 per cent of the possible amount. The normal March sunshine at Salt Lake City is 51 per cent of the possible amount.

WIND.

The prevailing direction of the wind was from the south. The total number of miles blown at Salt Lake City was 5,633; at Modena, 6,836; at Grand Junction, Colo., 4,192; and at Pocatello, Idaho, 8,338. The maximum velocity at Salt Lake City was 29 miles from northwest on 18th; at Modena, 41 miles from southwest on 5th; at Grand Junction, Colo., 24 miles from southeast on 31st; and at Pocatello, Idaho, 34 miles from southeast on 11th. The normal March wind movement at Salt Lake City is 4,498 miles.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Fog.—Henefer, 17.

Halos, lunar.—Henefer, 7, 10; Marysvale, 7; Parowan, 10; Ranch, 7.

Coronae, lunar.—Government Creek, 12; Lund, 7, 13; Marysvale, 10–12.

Halos, solar.—Government Creek, 19; Levan, 14, 21; Meadowville, 2, 19, 25, 27; Mount Nebo, 12, 21, 24.

Sleet.—Aneth, 18; Black Rock, 5; Green River, 18; Grover, 4; Heber, 31; Henefer, 5, 6; Pinto, 5; Tropic, 25.

Hail.—Black Rock, 25; Farmington, 5, 15; Giles, 18; Green River, 18; Henefer, 31; Huntsville, 16; Levan, 6, 17; Lund, 5, 17; Mount Nebo, 5, 16, 29; Pinto, 5; Tropic, 16.

High winds.—Aneth, 17; Black Rock, 12, 14, 16, 17, 31; Emery, 22; Frisco, 31; Garrison, 5; Giles, 4, 31; Lund, 16; Marysvale, 3, 13, 30, 31; Mount Nebo, 31; Tropic, 18.

Thunderstorms.—Black Rock, 30; Farmington, 5, 15; Frisco, 29; Government Creek, 29; Green River, 17; Henefer, 5, 30; Huntsville, 16, 30; Levan, 29; Meadowville, 5, 29, 31; Morgan, 5, 16, 31; Moab, 25; Mount Nebo, 30; Ogden, 30; St. George, 24; Salt Lake City, 5, 16, 29; Snowville, 30; Tooele, 29.

OBSERVERS' REMARKS.

Aneth.—An unusually wet month. The prospect for range feed is the best in years.—H. R. Antes.

Emery.—Planting was in progress at the close of the month.—H. C. Wickman.

Garrison.—An unusually pleasant month. The snow has disappeared from the benches, and grass has started nicely.—E. M. Smith.

Green River.—The month was cooler than usual. Alfalfa is growing nicely. Green River is rising rapidly.—John T. Farrer.

Government Creek.—A cool, unpleasant month. Very little farm work was done. Grass is slow in starting, and stock on the ranges is not doing well. Sheep especially have suffered, and large losses are reported.—Walter James.

Grover.—Plowing was begun and the first wild flowers seen on the 27th.—Henry Cullum.

Heber.—A very pleasant month. The first plowing was done on the 26th.—John Crook.

Henefer.—A very stormy month.—William Brewer.

Huntsville.—A cloudy month, with low temperatures the first part and mild temperatures the latter part.—Lars Petersen.

Kanab.—The wettest March on record.—Z. K. Judd.

Levan.—No field work was done during the month.—William Brown.

Marysvalle.—The season is very backward, and the ground is cold and wet. Plowing has begun.—G. T. Henry.

Meadowville.—A cold month, but the snow was melting rapidly at its close. Sheep are doing well on the ranges, but cattle are having a hard time to exist.—J. S. Moffat.

Morgan.—The snow melted very rapidly during the last decade, and none remained on the ground at the close of the month.—T. R. G. Welch.

Mt. Nebo.—The reservoir now contains four feet more water than at any time last year. There will be plenty of water for irrigation.—Mrs. Frank Roberts.

Pinto.—A very stormy month. No farm work was done.—J. H. Harrison.

Ranch.—A very stormy month, and the fields were still covered with snow at its close. Range feed is scarce.—J. W. Seaman.

St. George.—The fruit crop is in excellent condition.—J. G. Bleak.

Vernal.—The ground is too wet for spring work.—R. Veltman.

FARMING OPERATIONS AND CROP CONDITIONS DURING MARCH

Farm work during the month was generally limited to plowing, which began during the last decade. Fall grain and alfalfa made a good start. The fruit buds passed through the winter without suffering damage, but were showing no signs of opening at the close of the month. The grass has started on the ranges, but feed is still scarce, and stock generally in poor condition.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF MARCH

The precipitation of the month was somewhat below the normal.

The depth of snow in the mountains of all the watersheds of the State is generally greater than usual, and exceeds that for any season since the winter of 1896-97. Most of this snow fell during November, December and January. It has therefore had plenty of time to drift and pack, and is now in splendid condition to withstand the warm weather. The temperature conditions

during March were about normal, and only a moderate amount of melting occurred.

The depth of snow and its drifted and well packed condition assure all sections of the State an abundant supply of irrigation water throughout the coming crop season.

PERSONAL AND GENERAL.

The water level of Great Salt Lake was 3 feet below the zero of the gage on March 1, and 2 feet 10 inches below on March 15, 1903. On March 1 and 15, 1902, the readings were 8 inches and 7 inches below the zero, respectively.

The mean relative humidity for the month at Salt Lake City was 51.7 per cent, the lowest reading observed being 20 per cent on the 24th; at Modena, 61.2 per cent, the lowest observed being 15 per cent on the 13th; at Grand Junction, Colo., 63.1 per cent, the lowest observed being 30 per cent on the 15th; at Pocatello, Idaho, 67.6 per cent, the lowest observed being 38 per cent on the 23d. The normal relative humidity for March at Salt Lake City is 55 per cent.

Dr. Robert J. Hyatt, now stationed at St. Louis, Mo., will assume charge of the Utah Section of the Climate and Crop Service of the Weather Bureau about May 1st. Dr. Hyatt has had many years experience in Weather Bureau work, and comes well prepared to assume the duties of the section. The retiring Director, who goes to Galveston, Texas, desires to thank the voluntary observers and climate and crop correspondents for their faithful and valuable co-operation during the years he has been in charge, and hopes that the same hearty support will be given Dr. Hyatt.

Comparative Temperature and Precipitation Data for March during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	40.0	83	4	1.52
1893	35.6	87	—19	2.05
1894	36.6	85	—22	1.66
1895	37.0	87	—15	1.24
1896	38.0	88	—7	0.99
1897	32.0	79	—16	2.22
1898	34.2	80	—14	1.24
1899	38.5	84	—3	2.46
1900	43.9	86	6	0.19
1901	36.8	78	—2	0.84
1902	34.9	73	—9	1.28
1903	37.3	80	—32	1.19

ERRATA FOR FEBRUARY REPORT.

Page 5: Pinto's lowest temperature and date given as —16° on 7th, should be —19° on 3d.

CLIMATOLOGICAL DATA FOR UTAH, MARCH, 1903.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing direction of wind.	Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alpho.	Utah	4,900	7																	T. B. Whitby.
Blue Creek †	Box Elder	4,387	25	42.8	+3.0	70	*30	10	*1	35	0.30	-0.52	0.10	2.0	3	17	3	11	n.	Agent So. Pacific Co.
Corinne.	Box Elder	4,240	33	39.5	-0.4	68	29	4	1	34	1.00	-0.20	0.35	2.5	4	3	8	20	n.	W. E. Johnson.
Evanston, Wyo.	Uinta.	6,959	7	25.2	-2.3	52	30	-11	18	51	0.44	-0.83	0.35	7.0	2	25	1	5	se.	Frank Tucker.
Farmington.	Davis	4,267	3	40.6	+3.6	65	*30	11	1	31	1.59	+0.32	0.40	12.7	6	12	9	10	sw.	Charles Boylin.
Fr. Duchesne.	Uintah	5,000	15	28.3	-7.1	62	31	-12	1	37	0.08	-0.53	0.08	0.8	1					Post Surgeon.
Heber.	Wasatch	5,606	10	33.3	+0.7	62	29	-10	1	44	1.95	-0.20	0.70		12	11	9	11	s.	John Crook.
Hemefer - T.	Summit	5,301	4	32.7	-1.3	64	26	14	1	50	1.93	+0.52	0.45	15.2	13	5	12	14	w.	William Brewer.
Huntsville.	Weber	5,100	8								2.01	-0.36	1.05	18.0	4	4	21	6		Lars Petersen.
Kelton.	Box Elder	4,230	25	35.2	-5.0	65	30	1	1	30	0.40	-0.08	0.30	4.0	2	13	0	18	n.	Agent So. Pacific Co.
Logan.	Cache	4,507	12	36.2	+2.4	64	*29	-3	1	32	0.52	-1.31	0.22		4					James Dryden.
Meadowville.	Rich.	6,200	4	21.9	-6.3	48	29	-21	1	40	1.25	+0.67	0.40	13.5	5	16	6	9		J. S. Moffat.
Millville.	CACHE	4,848	8								1.69	-0.13	0.45		11					Fred. Yeates.
Morgan.	Morgan			34.8		71	12	-9	1	49	1.14		0.45	9.2	7	16	16	5	sw.	T. R. G. Welch.
Oakley, Idaho.	Cassia	4,191	10	37.0	-0.2	63	29	7	1	28	2.00	+1.15	0.90	3.0	6	10	16	5	s.	John Adams.
Ogden No. I.	Weber	4,310	2	39.6		67	29	7	1	28	1.38		0.46	11.0	6	17	8	6	se.	Enoch Farr.
Ogden No. II †.	Weber	4,310	33	43.3	+2.2	69	31	18	1	31	1.18	-0.41	0.38	9.8	3	13	0	18	se.	W. H. Chevers.
Park City.	Summit	6,846	6	33.0	+4.7	62	29	0	1	34	2.60	-1.12	0.60	24.5	11					J. H. Hance.
Pocatello, Idaho.	Bannock	4,488	3	37.8	+3.5	60	29	9	1	27	0.86	-1.31	0.24	4.9	12	7	16	8	e.	Weather Bureau.
Promontory †.	Box Elder	4,913	33								0.73	-0.03	0.43	2.8	2	12	0	19	n.	Agent So. Pacific Co.
Salt Lake City.	Salt Lake	4,306	29	42.3	+0.7	65	13	14	1	28	1.35	-0.68		9.6	5	5	9	17	se.	Section Center.
Snowville.	Box Elder	4,360	13	35.3	-0.3	63	30	-10	1	40	0.57	-0.83	0.15		6	6	18	7	s.	Joseph Robbins.
Terrace.	Box Elder	4,550	33	37.9	-2.9	68	*29	4	1	33	0.75	+0.29	0.40	7.5	4	11	0	20		A. W. Davis.
Tooele.	Tooele	4,900	7	40.6	+2.3	70	29	9	1	35	1.80	+0.24	1.16		6	19	6	6	se.	I. J. Elkington.
Tooele.	Uintah	5,050	8	33.5	-1.7	64	28	-5	1	36	1.02	+0.22	0.27	6.9	8	7	22	2	se.	Richard Veltman.
Vernal.	Oneida	4,460	5	34.2		64	30	-12	*1	37	0.87		0.25		8	8	8	15	sw.	William Chatterton.
Weston, Idaho.	Rich.	6,500	6	19.8	-10.7	50	*29	-32	1	59	0.90	-0.44	0.50	9.0	2	11	1	19		T. J. Tingey.
Woodruff - T 3.																				
Averages				35.3	-0.7						1.19	-0.41		9.4	6	11	8	12	se.	
MIDDLE.																				
Black Rock.	Millard	5,802	3	38.8	+2.0	70	30	-1	1	40	2.00	+1.26	0.80	16.5	6	14	9	8	s.	Willard Burbank.
Callao.	Juab		1																	E. E. Edwards.
Castle Dale.	Emery	5,500	4	36.2	-1.6	71	14	-1	1	51	0.57	+0.29	0.37		4	14	17	0		James Jeffs.
Cisco.	Grand	4,385	11	39.9	-2.6	60	*14	8	3	26	1.00	+0.53	0.50		3	24	1	6		H. T. Matthews.
Deseret.	Millard	4,541	9	39.6	-0.2	71	30	-9	1	45	0.40	-0.44	0.40	4.0	1	10	8	13	s.	S. W. Western.
Emery.	Emery	6,260	3	35.1		63	30	5	1	36	0.26	+0.16	0.26	2.6	1	0	17	14	sw.	H. C. Wickham.
Fillmore.	Millard	5,100	13	41.1	+1.3	71	29	4	1	38	1.19	-0.82	0.63		5					J. J. Starley.
Garretson - T 1.	Millard			40.8		72	30	8	1	37	0.20		0.20	2.0	1	15	9	7	s.	E. M. Smith.
Gov't Creek.	Tooele	5,277	3	39.4	+1.3	62	30	2	1	33	2.12	+0.59	0.95	15.1	7	11	10	10	s.	Walter James.
Grand June, Colo.	Mesa	4,608	12	41.7	-1.1	66	31	7	2	32	0.73	-0.10	0.18	1.5	8	7	15	9	se.	Weather Bureau.
Green River.	Emery	4,080	6	46.2	+1.8	75	21	18	11	39	0.02	-0.24	0.02	0.2	1	20	4	7		J. T. Farrer, Jr.
Ibapah.	Tooele			35.2		68	29	-8	1	43	1.12		1.11	0.1	2	13	0	18		Owen Sheridan.
Levan.	Juab	5,010	13	35.2	-0.6	62	*29	2	1	30	1.33	-0.78	0.82	12.4	5	11	11	9	sw.	William Brown.
Nanti.	San Pete.	5,575	9	35.5	-2.1	62	30	3	1	30	1.16	-0.58	0.40	9.5	6	0	18	13		W. M. Harmon.
Mount Nebo.	Utah	4,650	2	38.6		65	29	3	1	36	1.61		0.85	7.5	7	10	8	13	s.	Mrs. Frank Roberts.
Mount Ple's nt.	San Pete.	5,859	11	37.4	+0.8	60	29	11	6	30	1.40	-0.20	0.50	14.0	6	6	25	0		Webb Greene.
Provo - T 1.	Utah	4,532	11	40.6	+1.4	68	13	7	1	38	1.80	+0.50	0.60	11.3	11	12	15	3	se.	Caleb Tanner.
Richfield.	Sevier	5,323	13	40.4	+1.1	68	30	9	1	35	0.57	-0.72	0.27	3.0	4	10	17	4		J. M. Lauritzen.
Scipio.	Millard	5,260	8	38.2	+1.8	66	29	0	1	38	1.59	-0.60	0.38	6.0	10	1	15	15	sw.	Thomas Memmott.
Soldier Summit.	Utah	7,474	11			52	30				0.20	-1.78	0.20	2.0	1	22	1	7		Ag't Rio Grande R. R.
Thistle - T 1.	Utah	5,075	11	38.1	+1.4	67	14	5	6	54					12	6	12			E. T. Olson.
Wellington - T 3.	Carbon.	5,540	4		-1.3	65	27	3	1	42	0.76	+0.28	0.36	2.5	3	9	14	4		E. E. Branch.
Averages				38.4	+0.4						1.05	-0.49		7.0	5	11	11	9	s.	
SOUTHERN.																				
Aneth.	San Juan	4,800	3	44.8	+1.6	71	30	17	1	38	1.54	+1.14	0.53		6	17	8	6	e.	H. R. Antes.
Coyoto.	Garfield.		2																	H. J. McCullough.
Escalante.	Garfield.	5,700	3																	W. G. Bleak.
Frisco.	Beaver	7,318	9	37.7	0	64	30	14	20	30	0.68	+0.07	0.42	0.0	3	10	6	14	s.	S. N. Slaughter.
Giles.	Wayne	4,000	8	37.3	+4.9	67	*29	8	*1	42	0.26	+0.11	0.16		2	17	8	6	sw.	J. C. White.
Grover (near).	Wayne	5,800	7	35.0	-0.6	61	30	0	1	35	0.36	-0.21	0.36	T.	2	11	11	9		Henry Cullum.
Hite.	Garfield	3,000	4	48.6	-1.2	75	30	18	1	40	0.64	+0.64	0.20		4	10	15	6		F. W. Gibbons.
Kanab.	Kane	4,925	3	43.8		65	30	20	1	33	5.55		1.31	2.0	7	16	2	13		Z. K. Judd.
La Sal.	San Juan	7,000	3	34.4	+1.5	55	27	11	19	21	1.01		0.54	T.	4	11	9	11		Mrs. G. W. Carpenter.
Loa.	Wayne	7,000	11	29.4	-1.6	59	30	0	18	41	0.41	-0.12	0.20	2.0	3	17	10	4	w.	H. M. Hansen.
Lund.	Iron	5,092	3	39.0	+3.4	66	30	10	1	36	1.20	+0.94	0.35	3.6	6	12	12	7	ne.	B. R. Transeau.
Marysvale (near).	Piute.	6,180	4	36.8		63	30	0	7	42	0.66	-0.18	0.30	6.6	9	10	9	12	s.	G. T. Henry.
Minersville §.	Beaver	5,070	6	39.2	+1.0	67	30	5	7	34	1.10	-0.39	0.50	13.0	3	21	2	8		R. W. Dotson.
Moab.	Grand.	4,000	14	45.0	-0.8	70	12	14	1	41	0.91	+0.12	0.25	T.	7	10	6	15		Henry Crouse.
Modena.	Iron	5,479	3	37.6		63	30	8	1	36	0.74		0.32	3.5	7	9	12	10	sw.	Weather Bureau.
Monticello §.	San Juan	7,280	1	35.8		81	31	5	2	48	2.61		0.40	15.0	11	14	1	16	s.	John Bailey.
Parowan.	Iron	5,970	12	38.0	+0.1	64	*28	1	7	42	1.94	+0.16	0.90	19.3	10	7	15	9		

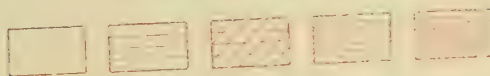
NOTE--Boldface figures indicate temperatures below zero.

NOTE--Boldface figures indicate temperatures below zero.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES--IN INCHES



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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF
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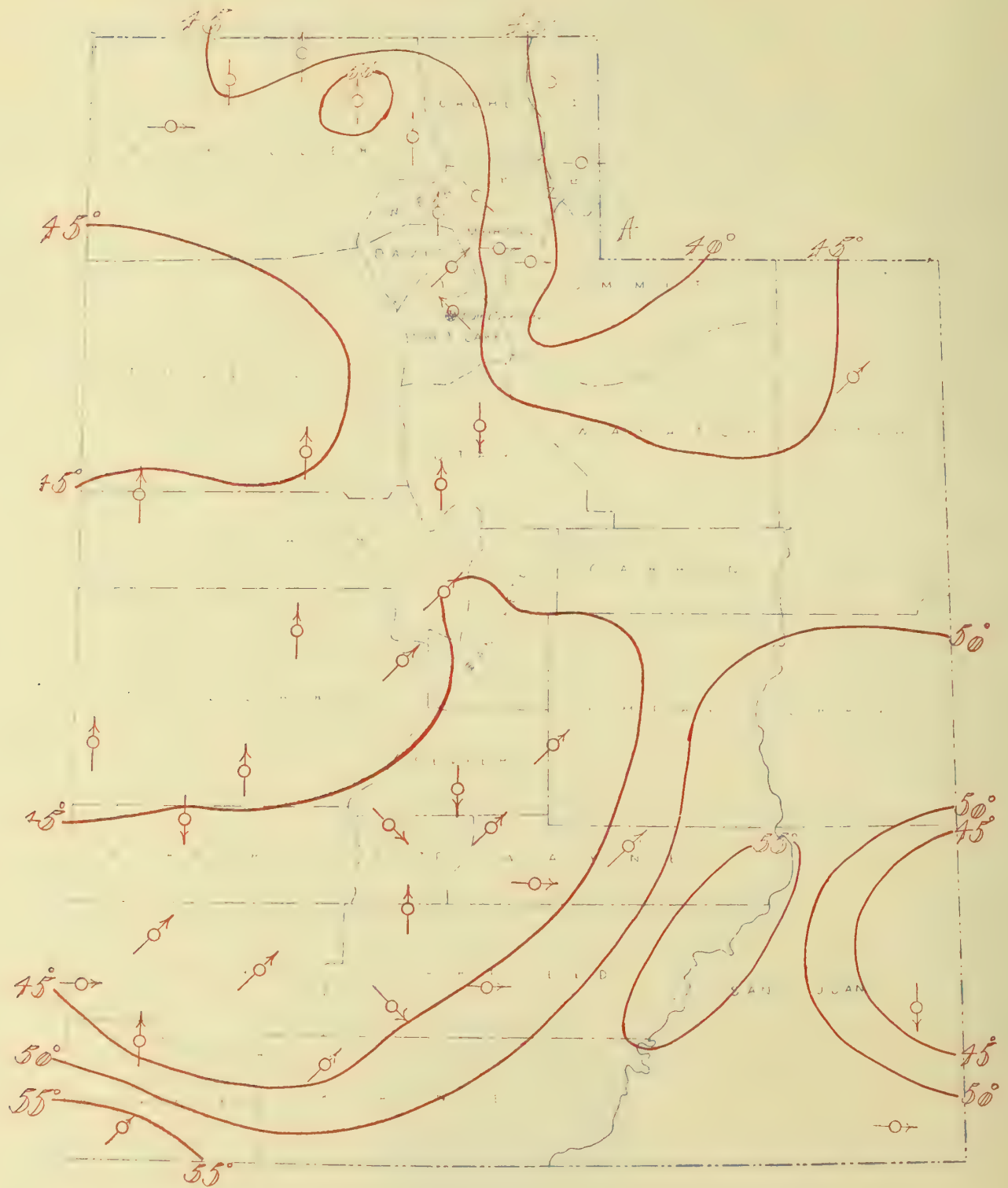
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,
CLIMATE AND CROP SERVICE
 OF THE
WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

NO. 6.

WEATHER.

Abnormally cold weather with an excess of cloudiness characterized the month. A spell of balmy, spring-like weather prevailed for a short time during the latter part of the first decade, but this condition was suddenly reversed on the 9th of the month, when a cold and rainy period set in that lasted for several days. High northerly winds also prevailed during this time. During the remainder of the month the weather was generally cold and raw, although occasionally there were days having a high maximum temperature. The nights were, however, uniformly cold and chilly. Precipitation was quite general throughout the State on the 9th and 10th, mostly in the form of moist snow. General precipitation also occurred on the 17th and 18th and on the 27th and 28th. Thunderstorms were frequent during this latter period. Heavy frosts occurred about the middle of the month and again near the close. Temperatures at these times were generally below the freezing point.

TEMPERATURE.

The mean temperature of the section, determined from the reports of 59 stations, was 46.0° , or 1.3° below the normal. The highest monthly mean was 57.6° at Hite, the lowest was 36.0° at Loa. The highest temperature recorded was 95° at Blue Creek on the 23rd; the lowest was 4° at Snowville on the 11th, and at Loa on the 12th; giving an absolute range for the section of 91° . The greatest daily range for any station was 61° at Castle Dale on the 14th. The highest temperatures of the month were generally recorded on the 23rd, 24th, and 25th; and the lowest on the 11th, 12th, and 13th.

PRECIPITATION.

The average precipitation, determined from the reports of 57 stations, was 1.01 inches, or .04 inch below the normal. A deficiency occurred over the northern portion and to a much less degree over the southern, while the middle portion had precipitation considerably in excess of the normal. The greatest monthly amount was 2.79 inches at Kanab, while no precipitation whatever occurred at Loa. The greatest rainfall in any 24 consecutive hours was 1.38 inches at Fillmore on the 11th. The average snowfall (unmelted) was 3.5 inches. There was an average of 5 days with .01 inch or more of precipitation.

WIND AND WEATHER.

The prevailing direction of the wind was from the south. The total number of miles recorded at Salt Lake City was 5,261;

at Modena, 8,012; at Grand Junction, Colo., 5,048; and at Pocatello, Idaho, 6,658. The maximum velocity at Salt Lake City was 36 miles from the north on the 4th; at Modena, 43 miles from the southwest on the 1st; at Grand Junction, Colo., 41 miles from the southwest on the 1st; and at Pocatello, Idaho, 35 miles from the southwest on 4th.

The average number of clear days during the month was 15; partly cloudy days, 8; cloudy days, 7. Determined from the automatic sunshine record, Salt Lake City had 58 per cent; Modena, 70 per cent; Grand Junction, Colo., 75 per cent; and Pocatello, Idaho, 59 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 53 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 43.8 per cent, the lowest observed reading being 9 per cent on the 15th; at Modena, 64.6 per cent, the lowest observed reading being 10 per cent on the 15th and 30th; at Grand Junction, Colo., 55.4 per cent, the lowest observed reading being 24 per cent on the 23rd; at Pocatello, Idaho, 59.7 per cent, the lowest observed reading being 28 per cent on the 18th.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Aurora.—Morgan, 1.

Corona, lunar.—Lund, 3, 5.

Earthquake.—St. George, 28.

Coronae, solar.—Lund, 14, 16; Ogden, 24.

Halos, lunar.—Marysville, 5; Modena, 3-5.

Halos, solar.—Mount Nebo, 20; Modena, 25.

Light frost.—Modena, 8, 20, 28; Salt Lake City, 13, 28, 30.

Heavy frost.—Henefer, 29; Levan, 29, 30; Modena, 4, 18, 19; Salt Lake City, 2, 6, 11, 12, 29.

Sleet.—Frisco, 18; Government Creek, 1; Grover, 11, 28; Henefer, 18; Huntsville, 10; Levan, 1, 10, 27; Marysville, 28; Meadowville, 10, 17; Parowan, 2; Pinto, 2, 17.

Killing frost.—Aneth, 2; Callao, 8, 29; Deseret, 3, 5, 6, 12-14, 30; Farmington, 2, 11-13, 29, 30; Government Creek, 29; Henefer, 12, 13, 30; Huntsville, 12, 13; Marysville, 30; Moab, 30; Modena, 2, 3, 6, 13; Morgan, 11, 29, 30; Scipio, 28, 29.

Thunderstorms.—Aneth, 1, 9; Callao, 26; Deseret, 1; Green River, 9; Heber, 10, 28; Huntsville, 10, 28; La Sal, 25, 26; Levan, 1, 25; Meadowville, 1, 26; Moab, 17; Monticello, 9; Ogden, 17, 28; Parowan, 9; Ranch, 9; Salt Lake City, 1, 27; Scipio, 9.

High winds.—Aneth, 2, 4, 5, 10-12; Black Rock, 4; Deseret, 1, 4, 9, 14, 15, 17, 25, 26; Emery, 2, 27, 28; Frisco, 26; Garrison, 10, 14; Giles, 11; Heber, 14; Hite, 5; Lund, 1, 10; Marysville, 1, 2; Salt Lake City, 1, 2, 4, 10, 15-17, 25, 27-29; Tropic, 1; Vernal 17.

Hail.—Black Rock, 17, 18; Deseret, 17; Emery, 17; Frisco, 10; Government Creek, 1, 18, 19; Giles, 18; Green River, 11; Heber, 10, 18; Henefer, 1, 18; Huntsville, 28; Levan, 1, 10, 18, 28; Marysville, 27; Moab, 1, 18; Modena, 18, 28; Mount Nebo, 28; Ogden, 17, 28; Parowan, 22; Provo, 10, 17, 27; Tropic, 9, 17, 18.

OBSERVERS' REMARKS.

Aneth.—Month colder than last year; the season is fully two weeks late.—H. R. Antes.

Black Rock.—Generally a good month for crops; days warm, but nights rather cold.—Willard Burbank.

Deseret.—Rather a cold April; crops backward; soil very dry; heavy frosts killed the early blossoms on fruit trees.—S.W. West-ern.

Emery.—A very dry and cold month; ground becoming very dry.—H. C. Wickman.

Giles.—A cold, backward spring; fruit somewhat injured.—John C. White.

Government Creek.—The month has been cold and all crops are backward.—Walter James.

Green River.—The river is rising rapidly.—John T. Farrer, Jr.

Grover.—A cold, backward, and disagreeable month, unfavorable for farm and garden work.—Henry Cullum.

Heber.—Weather during the month was cold and changeable; snow flurries occurred on the 18th and 28th.—John Crook.

Henefer.—The month was cold; precipitation was below the average and crops were growing slowly.—Wm. Brewer.

Huntsville.—The month has been cold and windy; vegetation is very backward.—Lars Petersen.

Kanab.—The spring is very backward and fruit trees have been very slow in blooming.—Z. K. Judd.

Levan.—A stormy month, but favorable for small grain.—Wm. Brown.

Marysville.—Crops, fruit buds, and foliage very backward; buds injured somewhat by frost; grass on ranges starting.—Geo. T. Henry.

Meadowville.—The past month has been very pleasant; grass on the hills has made rapid growth.—J. B. Moffatt.

Morgan.—Nights very cold; snow in the mountains melting slowly.—T. R. G. Welch.

Mount Nebo.—The month has been dry and windy; the late heavy frost did not damage fruit trees nor vegetation in this locality.—Mrs. Frank Roberts.

Pinto.—A pleasant month; small grain all in; cattlemen lost heavily the past winter; month closes cool.—J. H. Harrison.

Ranch.—Some snow in the hills; meadows are turning green and farming is under good headway; plenty of water.—J. W. Seaman.

St. George.—Peas in bloom on the 6th; good prospect for an abundant crop of all kinds of fruit.—James G. Bleak.

Scipio.—Considerable cold and chilly weather; vegetation making a very slow growth; grain and lucerne thriving during the last week.—Thomas Memmott.

Tropic.—Spring very backward, but prospects are excellent; fruit promises well; water for irrigation abundant.—Edward P. Bolton.

CROP CONDITIONS.

The work of plowing and seeding was materially delayed by the unusually cold weather of the month. The seeding of spring grain was not fairly begun until the middle of the month, even then progress was slow, and the work was still in an unfinished

state at the close of the month. At that time early-sown wheat was coming up well, but the late-sown had not yet appeared, as the cold ground prevented the proper germination of the seed. Fall wheat was at first thought to be in fair condition, but in time its real condition became more and more apparent, and at the close of the month the crop was, according to the statements of the great majority of correspondents, in poor condition. Alfalfa was making slow growth and its condition was generally below the average. Much of the crop was found to be winter-killed, and this was being plowed up and the ground sown to other crops. Fruit trees were slow in blossoming, a very fortunate circumstance, as the damage from the severe frosts during the month would otherwise have been far greater. Apricots were in the most advanced state and this particular fruit is believed to have been severely injured. The planting of potatoes, gardens, and sugar beets was under rapid headway at the close of the month. Some early planted beets were coming up. Some damage to this crop by frost is reported. The cold weather of the month retarded the melting of the snow in the mountains and irrigation water was not as plentiful as usual for that time of year.

GREAT SALT LAKE.

The level of the water was 2 feet 8 inches below the zero of the gage on April 1st, and 2 feet 5 inches below on April 15th. On April 1st and 15th, 1902, the stage of the water was at 5 inches below the zero.

Comparative Temperature and Precipitation Data for April during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	46.8	87	11	1.66
1893	44.4	88	1	1.15
1894	45.8	91	4	0.86
1895	49.2	94	5	0.58
1896	41.0	87	— 1	1.07
1897	47.0	93	6	0.89
1898	51.5	98	8	0.72
1899	48.2	90	11	0.58
1900	45.7	88	10	2.46
1901	46.2	89	0	0.69
1902	48.5	94	7	1.16
1903	46.0	95	4	1.01

ERRATA FOR MARCH REPORT.

Pocatello, Idaho.—Maximum precipitation, 24 hours, recorded .24 should be .29.

Ogden, No. 2.—Minimum temperature recorded 18° on the 1st should be 12° on the 6th.

Parowan.—Snowfall recorded 19.3 should be 16.3.

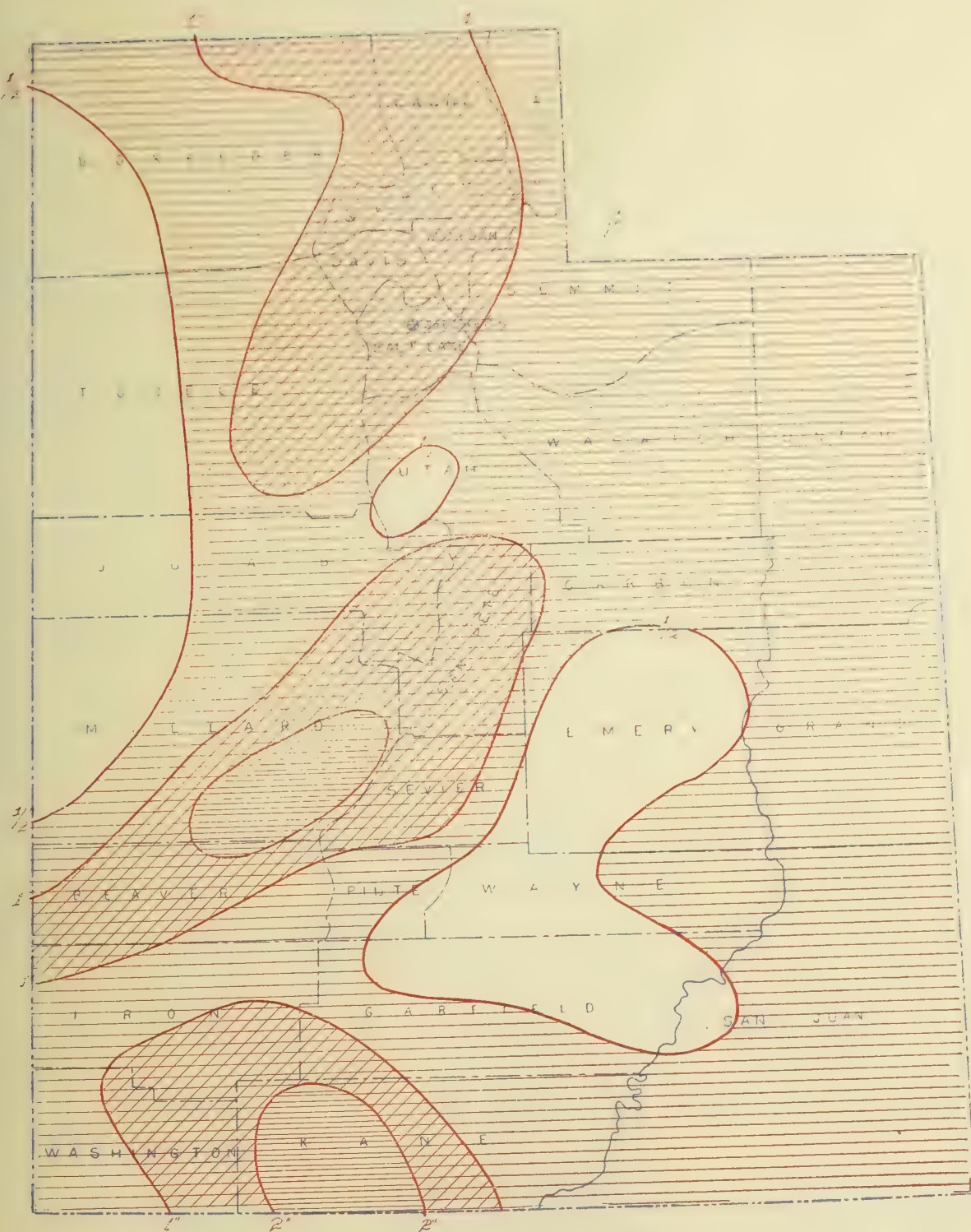
CLIMATOLOGICAL DATA FOR UTAH, APRIL, 1903.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches						Sky.				Prevailing direction of wind.	Observations.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest daily range.	Total.	Days with no rain.	Number of rainy days.	Number of partly rainy days.	Number of cloudy days.			
NORTHERN.																					
Alpine.	Utah.	4,900	7																		T. B. Whitby.
Blue Creek †.	Box Elder.	4,387	28	55.9	+4.1	95	23	11			0.45	-0.41	0.30	1.19	19	1	8	8			Agent So. Pacific Co.
Comme.	Box Elder.	4,349	33	47.4	-3.1	81	28	23	19	41	1.11	+0.01	0.38	1.11	10	9	11	8.			W. L. Johnson.
Evanston, Wyo.	Uinta.	9,950	7	36.8	-1.0	60	28	8	16	40	1.22	-0.11	0.58	3.9	7	12	9	9	SW.		Frank Tucker.
Farmington.	Davis.	1,207	3	47.1	+0.2	76	13	21	12	38	1.81	-0.90	0.70	2.6	7	12	1	10	SW.		Charles Koyin.
Fl. Duchesne.	Uinta.	5,000	15	41.3	-3.8	70	23	13	6	36											Post Surgeon.
Heber.	Wasatch.	5,606	10	42.7	1.2	78	28	10	6	40	0.78	-0.54	0.23	1.2	12	10	8	8.			John Crank.
Henefer.	Summit.	5,301	4	42.0	1.1	78	28	13	6	80	1.11	-0.49	0.30	3.6	10	12	8	8.	W.		William Brewer.
Huntsville.	Weber.	5,100	8								1.33	-0.51	0.38	T	11	11	5	10.	NW.		Lars Petersen.
Kelton.	Box Elder.	4,230	25	44.6	-5.6	70	20	19	10	38	0.78	-0.04	0.50	1.0	11	11	5	10.	N.		Agent So. Pacific Co.
Logan.	Cache.	4,507	12	45.8	-0.9	76	28	17	11	31	2.01	+0.21	0.78	1.0	11	11	5	10.	NW.		James Layden.
Meatowville.	Rich.	6,200	4	38.9	-1.9	68	22	13	12	37	0.80	-1.76	0.40	1.0	11	11	5	10.	W.		J. S. Moffat.
Minville.	Cache.	4,818	8								1.78	-0.26	0.50	1.0	11	11	5	10.	W.		Fred Yeates.
Morgan, T. P.	Morgan.			43.0		78	28	14	12	53	0.81		0.21	1.0	11	11	5	10.	W.		T. R. G. Welch.
Oakley, Idaho.	Cassia.	4,191	10	41.1	-1.7	72	21	13	14	41	1.38	-0.18	0.65	1.0	11	11	5	10.	N.		John Adams.
Ogden No. 1 - T. P.	Weber.	4,310	2	48.5		82	21	12	12	31	1.48		0.15	1.0	11	11	5	10.	NW.		Loch Farr.
Ogden No. 2 - T. P.	Weber.	4,310	33	48.9	-3.7	79	28	28	12	40	0.40	-0.2	0.30	1.0	11	11	5	10.	8.		J. H. Chivers.
Park City.	Summit.	8,846	6	40.4	+2.2	80	28	8	2	50	0.95	-1.60	0.39	0.5	11	11	5	10.	SW.		J. H. Hance.
Pocatello, Idaho.	Bannock.	4,488	3	43.8	-3.0	70	28	20	2	30	1.54	+0.03	0.40	0.4	11	11	5	10.	SW.		Weather Bureau.
Promontory †.	Box Elder.	4,913	33																		Agent So. Pacific Co.
Salt Lake City.	Salt Lake.	4,300	29	48.7	-1.3	80	28	25	12	35	1.11	-1.10	0.50	0.5	11	11	5	10.	SE.		Section Chief.
Snowville.	Box Elder.	4,360	13	42.5	-3.0	77	28	11	11	41	1.66	+0.51	1.04	1.0	11	11	5	10.	8.		Joseph Robbins.
Terrace.	Box Elder.	4,550	33	46.8	-3.7	78	28	19	6	38	0.45	+0.04	0.40	0.5	11	11	5	10.	8.		A. W. Davis.
Tooele.	Tooele.	4,000	7	46.8	-1.9	79	28	18	11	37	1.73	+0.01	0.67	1.0	11	11	5	10.	SW.		J. J. Elkington.
Vernal.	Uinta.	5,050	8	47.8	-0.8	81	28	15	6	42	0.67	-0.02	0.25	2.0	11	11	5	10.	SW.		Richard Verman.
Weston, Idaho.	Oneida.	4,460	5	44.1	-2.1	79	28	8	11	44	1.66	-0.03	0.55	4.0	11	11	5	10.	N.		William Chatterton.
Woodruff.	Rich.	6,500	6	38.2	0	75	28	11	8	51	0.72	+0.06	0.30	1.0	11	11	5	10.	W.		T. J. Tingey.
Averages.				45.3	-2.3						1.10	-0.26		2.7	5	14	8	8	8.		
MIDDLE.																					
Black Rock.	Millard.	5,802	3	46.2	-1.8	82	25	10	13	50	2.59	+1.87	1.00	8.5	8	13	12	5	8.		Willard Burbank.
Callao, T. P.	Juab.		1	48.8		85	25	8	13	87	T.		T.	0	9	13	5	8.			E. E. Edwards.
Castle Dale.	Emery.	5,500	4	43.6	-2.1	83	20	5	11	61	0.10	-0.9	0.05	0	18	12	6				James Jeffs.
Cisco.	Grand.	4,385	11																		H. T. Matthews.
Deseret.	Millard.	4,541	9	40.5	-1.2	82	25	16	13	54	0.90	-0.14	0.60	1.0	4	15	11	4	8.		S. W. Western.
Emery.	Emery.	6,260	3	40.8	-2.6	76	23	14	13	47	T.	0.10	T.	0	4	14	12	SW.			H. C. Wickman.
Fraser.	Millard.	5,100	13	47.9	-1.5	85	25	9	12	48	2.66	+0.77	1.38	0							J. J. Starley.
Garrison.	Millard.			40.9		81	25	15	13	44	0.38		0.18	0.5	3	23	5	2	8.		E. M. Smith.
Gay's Creek.	Tooele.	5,277	3	44.8	-1.8	70	26	10	12	42	1.07	-0.57	0.26	2.0	6	17	8	8.			Weather Bureau.
Grand Junc., Colo.	Mesa.	4,068	12	51.8	-1.4	79	23	17	13	31	0.78	+0.12	0.40	0	11	14	6	6.	SE.		Walter James.
Green River.	Emery.	4,080	6	41.2	+1.3	91	30	19	6	51	0.50	+0.22	0.50	1	17	6	6				J. T. Farrer, Jr.
Idapah.	Tooele.			43.5		77	25	7	13	49				1	13	6	17				Owen Sheridan.
Lexan.	Juab.	5,010	13	44.8	-1.7	78	25	18	12	41	2.03	+0.22	1.20	2.1	6	16	8	6	SW.		William Brown.
Manti.	San Pete.	5,575	9	44.4	-4.2	78	20	18	6	37	1.22	+0.62	0.65	0	5						W. M. Harmon.
Mount Nebo.	Utah.	4,650	2	49.0		82	25	22	5	46	0.44		0.20	0	4	16	1	10	8.		Mrs. Frank Roberts.
Mount Pea's nt.	San Pete.	5,859	11	45.4	-2.0	79	21	18	5	30	1.31	+0.65	0.42	0.7	8	13	19	3	N.		Web. Greene.
Provo.	Utah.	4,532	11	48.2	-1.0	81	25	19	13	48	0.41	-0.6	0.14	0	4	13	12	4			Caleb Tanner.
Richfield.	Sevier.	5,373	13																		J. M. Lauritzen.
Scipio.	Millard.	5,200	6	45.8	-0.4	83	21	17	1	44	1.83	+0.76	0.68	8.0	8	16	0	11	SW.		Thomas Memmott.
Soldier Summit.	Utah.	7,474	11	47.8	+7.5	72	25	25	1	35											Ag't Rio Grande R. R.
Thistle.	Utah.	5,775	11	50.0	+3.0	86	22	30	1	35	1.75	+0.72	0.75	2.0	5	21	0	9			E. T. Olson.
Wellington - P7.	Carbon.	5,540	4	46.2	+1.5	80	23	10	13	40											E. E. Branch.
Averages.				46.6	+0.7						1.09	+0.35		3.5	4	15	8	7	8.		
SOUTHERN.																					
Aneth.	San Juan.	4,800	3	53.2	-2.0	84	21	27	13	41	0.59	+0.50	0.38	0	16	11	3	W.			H. R. Antes.
Coyote - T. P. D.	Garfield.		2	43.4		77	23	17	13	52	0.01		0.01	0	1	12	1	0	8.		H. J. McCullough.
Escalante.	Garfield.	5,700	3	47.4		79	20	20	11	45	0.56		0.21	0	13	13	4	W.			W. G. Bleak.
Fraser.	Beaver.	7,318	9	44.5	-2.0	79	24	15	5	38	1.49	+0.77	0.84	0	6	13	13	4	8.		S. N. Slaughter.
Giles.	Wayne.	4,000	8	49.6	-2.2	84	24	14	6	51	0.72	+0.26	0.50	0	2	22	6	2	SW.		J. C. White.
Grover (near).	Wayne.	5,800	7	43.2	+0.9	75	22	14	16	22	0.30	-0.26	0.20	3.0	2	12	8	10	W.		Henry Culum.
Hite.	Garfield.	3,000	4	57.6	-1.4	91	21	34	7	48	0.26		0.26	0	1	19	4	7			F. W. Gibbons.
Kanab.	Kane.	4,925	3	52.0		87	25	30	3	42	2.79		1.05	0	4	22	6	2			Z. K. Judd.
La Sal.	San Juan.	7,000	3	43.4	-0.7	72	25	15	2	31	0.61	+0.28	0.24	0	6	16	0	5	SW.		Mrs. G. W. Carpenter.
Loa.	Wayne.	7,000	11	36.0	-4.5	73	23	4	12	50	0.00	-0.52	0.00	0	21	0	3	SW.			H. M. Hansen.
Lund.	Iron.	5,092	3	46.1		80	21	21	14	44	0.94		0.42	1.5	0				ne.		B. R. Transeau.
Marysvale (near).	Piute.	6,180	4	43.6	+0.7	76	24	16	13	50	0.70	-0.24	0.32	5.2	7	11	7	12	NW.		G. T. Henry.
Minersville.	Beaver.	5,070	6																		R. W. Dotson.
Moab.	Grand.	4,000	14	54.4	-0.9	89	25	25	13	46	0.69	+0.26	0.51	T.	5	15	7	8			Henry Crouse.
Modena.	Iron.	5,479	3	44.1		76	24	18	13	44	0.61		0.34	1.4	6	16	9	5	W.		Weather Bureau.
Monticello.	San Juan.	7,280	1	42.6		72	23	17	15	30											

NOTE--Boldface figures indicate temperatures below zero.

NOTE--Boldface figures indicate temperatures below zero.

TOTAL PRECIPITATION FOR THE MONTH.



SCALE OF SHADES—IN INCHES.



LESS THAN $\frac{1}{2}$ $\frac{1}{2}$ TO 1 1 TO 2 2 TO 3 OVER 3

DAILY PRECIPITATION FOR UTAH, APRIL, 1903.

Sections and stations.	Day of month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine										.10								.30									.05						0.45	
Blue Creek																		.10									.26						1.11	
Corinne	.35									.35																							1.22	
Evanston, Wyo.	.58	T.			.14					.21						T.			T.								.03	.10	.13	.03			1.81	
Farmington	.21			T.	.17					.30								.22	.18									.70	.03					
Ft. Duchesne																	*																	
Heber	.20				.05					.15							*	.07	.23									.23	.08				0.78	
Henefer	.30	.01		T.	.28		T.			.18						T.		.09	.10									.11	.04				1.10	
Huntsville	.18				T.					.31								.36									.38		.10				1.33	
Kelton	.50										.08																	.20					0.78	
Logan	.78	T.								.45								T.	T.									.31	*	.47			2.01	
Meadowville					.10					.10								.20	*	.40										T.	T.		0.80	
Millville	.50			.05						.44								.03										.44		.32	T.		1.78	
Morgan	.16	T.			.13	1.				.21									.12								T.	.19					0.81	
Oakley, Idaho	.50								.10	.65																			.10				1.35	
Ogden No. I.	.34	.02								.24								.20	.19									.45	.04				1.48	
Ogden No. II.	.30																																0.40	
Park City				.25		T.				.15								.30			T.							T.	.05	.20	T.		0.95	
Pocatello, Idaho	.40	.28			T.		T.	T.	.07	.40	T.	T.				T.		.04	T.		T.							.20	.11	.10	T.		1.54	
Promontory																																		
Salt Lake City	.04	T.		T.	.12					.21	.07							.01	.07		T.	T.							.50	.04	T.		1.11	
Snowville	.44									1.04																	.15		.03				1.66	
Terrace											.40																T.	.05					0.45	
Tooele	.24	.08		.20						.42	.01							.03										.01	.67	.07			1.73	
Vernal	.22				.20					*	.25							T.	T.												T.		0.67	
Weston, Idaho	.12									.55								.04											.43	.19	.03		1.66	
Woodruff	T.				.30													T.										.22	.20				0.72	
MIDDLE.																																		
Black Rock	.23	.28			.40					.08	.50	1.00						.02	.08	T.									T.				2.59	
Callao																		T.															1	
Castle Dale	.05							.05		T.																								0.10
Cisco																																		
Deseret	.60				.04					T.	.12							.14	T.										T.				0.90	
Emery																		T.															T.	
Fillmore	.15	.30			.44					.20		1.38						T.	.16	.02									.01				2.66	
Garrison	.18	.05			.15					T.								T.	T.														0.38	
Governments Creek	.26	T.		*	.16					*	.21							*	.17	.11									*		.16		1.07	
Grand Junction, Colo.	.08	.32	T.		.02					.05	T.	.13	18					*	T.							T.				T.	T.		0.78	
Green River											.50																						0.50	
Hatch																																		
Hibpah																																		
Levan	T.	1.20			.11					.32	T.							.07	T.										.33	T.			2.03	
Manti	T.	*	.12		.12					T.	.65							T.	T.	.15									T.	.18			1.22	
Mount Nebo	.20	.06									.66							T.	T.		T.												0.44	
Mount Pleasant	.39			.21						.42																				.39				1.41
Provo	.05	T.			.07					.08	.02							.03	.62		T.								.10	.14			0.51	
Richfield																																		
Scipio	.64	.05		.20	T.					T.	.68	.03					.04	.11												.08			1.83	
Soldier Summit																																		
Thistle	.75				.20					.30																				.20	.30			1.75
Wellington																																		
SOUTHERN.																																		
Aneth	.38	.15								.04								T.	.02														0.59	
Coyote																		.01															0.01	
Escalante	.20	.21						.10										.05									T.						0.56	
Frisco	.19	.26	*	.05						*	.84							.05	.10											T.			1.49	
Giles	.22										.50								T.														0.72	
Grover (near)	.20	T.								T.		T.							.10											T.			0.30	
Hite	T.	.26																	T.														0.26	
Kanab	1.05	.48								T.								.48	.78														2.79	
La Sal	.03	.15								.15	.01	.03						.24															0.61	
Loa																																	0.00	
Lund	.29				.03						.02							.18	T.														0.94	
Marysville (near)	.03	.14			T.					T.	T.	.32	.02					.01	.16							T.	T.	T.	.42				0.70	
Minersville																																		
Moab	.07	.51								T.		.07						.03	.01											T.			0.69	
Modena	.03	.32			.04						T.							.14	.02											.06			0.61	
Modena	.59	.07								.11								T.															0.77	
Monticello	.05	.51			.07					T.	.27	.01						.04	.06											.02	.03		1.06	
Parowan	.16	.28				.01											*	.38	.03											T.			1.30	
Pinto	.07	.43			.17						.38	.05						.02	.15	T.					</									

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

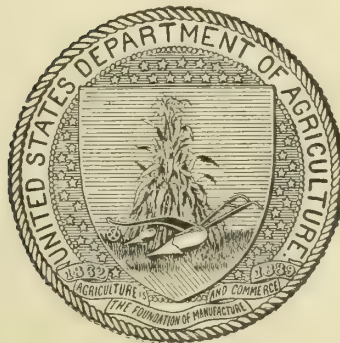
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

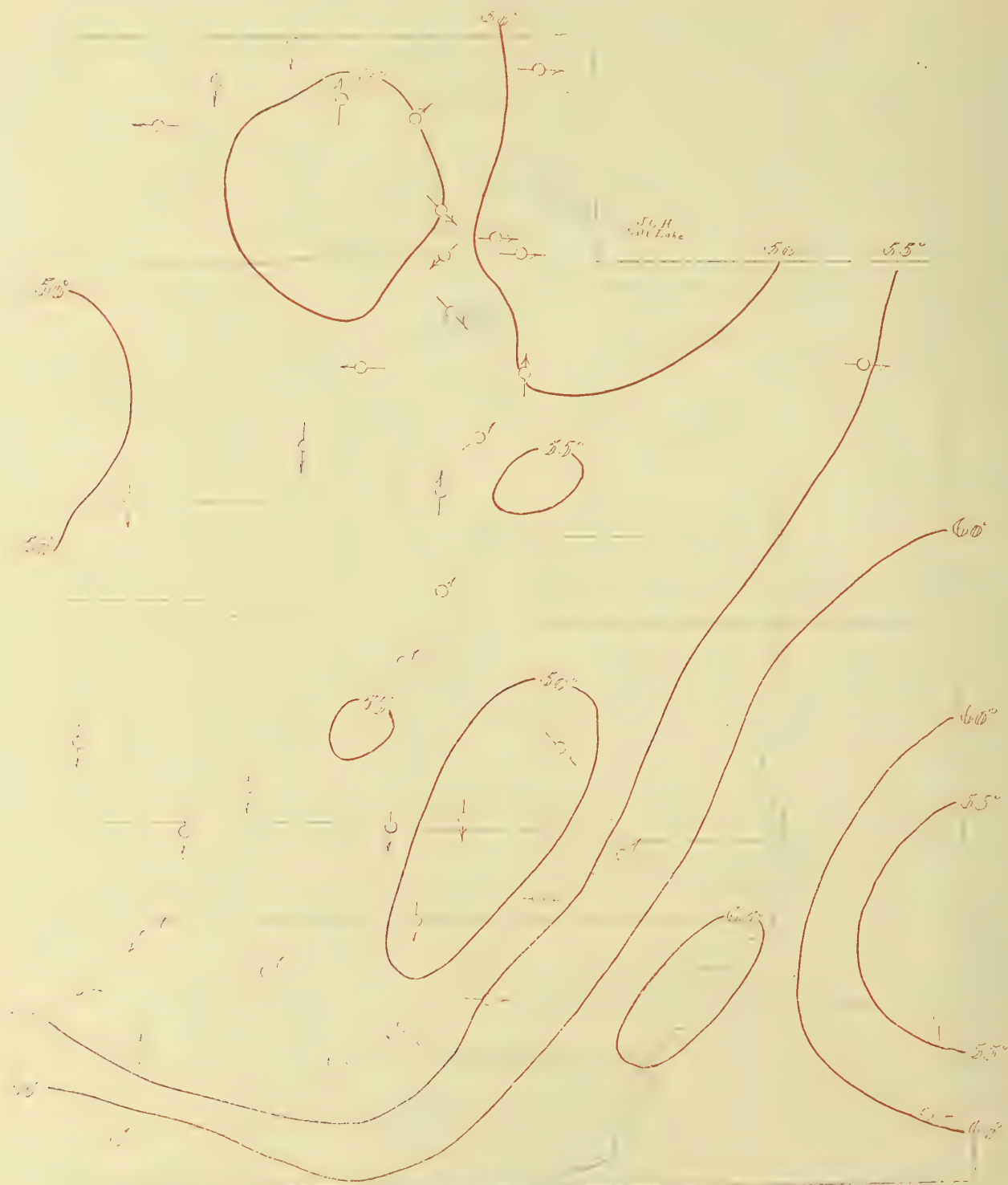
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

No. 7.

WEATHER.

The fore part of the month presented about the average weather conditions. The skies were generally clear, precipitation light, and temperatures normal, or slightly above. A decided change in this mild weather occurred about the middle of the month. Several storm areas, having their inception in the Southwest, passed over the state in rapid succession, causing abnormally low temperatures and excessive rainfall. These extraordinary conditions continued for an entire decade and during this interval plant growth was retarded and farm work entirely suspended, the former because of the low temperatures, the latter owing to the wet condition of the soil. Very little frost occurred, however, the excessive cloudiness preventing or retarding its formation. The last few days of the month were dry and clear with gradually rising temperatures.

TEMPERATURE.

The mean temperature of the section, determined from the reports of 59 stations, was 53.3° , or 3.4° below the normal. The highest monthly mean was 66.7° at Hite, the lowest was 44.8° at Loa. The highest temperature recorded was 100° at St. George on the 14th, the lowest was 15° at Loa on the 17th, giving an absolute range for the section of 85° . The greatest daily range for any station was 57° at Loa on the 12th. The highest temperatures of the month were generally recorded on the 13th and 31st, and the lowest on the 17th and 18th.

PRECIPITATION.

The average precipitation, determined from the reports of 60 stations, was 1.60 inches, or .79 inch above the normal. An excess occurred over the entire section, particularly over the northern and middle portions. The greatest monthly amount was 4.34 inches at Ogden No. 1; the least monthly amount was .12 inch at Aneth. The greatest rainfall in any 24 consecutive hours was 1.80 inches at Ogden No. 1. The average snowfall (melted) at stations reporting this form of precipitation was 4.4 inches. There was an average of 6 days with .01 or more of precipitation.

WIND AND WEATHER.

The prevailing direction of the wind was from the north. The total number of miles recorded at Salt Lake City was 4,561; at Modena, 7,721; at Grand Junction, Colo., 4,514; and at

Pocatello, Idaho, 7,075. The maximum velocity at Salt Lake City was 36 miles from the north on the 9th; at Modena, 48 miles from the southwest on the 16th; at Grand Junction, Colo., 29 miles from the northwest on the 10th; and at Pocatello, Idaho, 32 miles from the south on the 26th.

The average number of clear days during the month was 16; partly cloudy days, 8; cloudy days, 7. Determined from the automatic sunshine record, Salt Lake City had 61 per cent; Grand Junction, Colo., 75 per cent; and Pocatello, Idaho, 65 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 52 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 48 per cent, the lowest observed reading being 14 per cent on the 6th; at Modena, 37 per cent, the lowest observed reading being 8 per cent on the 14th; at Grand Junction, Colo., 46.8 per cent, the lowest observed reading being 18 per cent on the 23rd; at Pocatello, Idaho, 60.0 per cent, the lowest observed reading being 31 per cent on the 4th.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Fog.—Henefer, 25.

Halos, lunar.—Tropic, 3, 7.

Halos, solar.—Henefer, 2, 9; Pinto, 18.

Coronae, solar.—Government Creek, 13; Pinto, 19.

Sleet.—Frisco, 16, 21, 25; Giles, 17; Green River, 16, 27; Grover, 21; Levan, 16, 18, 22; Marysville, 16, 21.

Killing frost.—Frisco, 17–19; Kanab, 19; Lund, 18; Marysville, 3, 5, 17, 18, 23, 25, 26; Modena, 24; Parowan, 17; Pinto, 18; Ranch, 18; Scipio, 1–5, 7–9.

High winds.—Aneth, 13, 15, 20, 21, 23, 24; Heber, 12, 14, 16–18; Henefer, 1, 7, 14, 16; Loa, 16; Lund, 14, 16; Moab, 16; Monticello, 17, 23, 25; St. George, 1, 16, 17; Tropic, 11, 14–16; Vernal, 1, 5, 7.

Hail.—Black Rock, 21–23; Emery, 20, 22; Farmington, 21; Ft. Duchesne, 21; Frisco, 16, 21, 25; Government Creek, 14, 16, 23–25, 27; Green River, 16, 27; Grover, 14, 16; Huntsville, 17, 21, 22, 27; Levan, 17, 18, 21, 23; Lund, 16, 21; Marysville, 16, 17, 21; Modena, 21, 26; Moab, 16, 17; Mt. Nebo, 22, 23; Ogden, 17; Parowan, 16, 17; Salt Lake City, 21, 23; Tropic, 25; Vernal, 16, 22.

Thunderstorms.—Emery, 14, 22; Farmington, 21–23; Frisco, 16, 21, 27, 31; Giles, 7, 16; Green River, 16, 27; Grover, 14, 16; Heber, 27; Huntsville, 21–23, 27; La Sal, 14; Levan, 13, 14, 23; Lund, 31; Marysville, 13, 16, 21, 31; Meadowville, 21; Moab, 14, 21; Modena, 16, 25; Morgan, 17, 22, 23; Ogden, 21; Parowan, 16; Ranch, 21; Salt Lake City, 14, 17, 18, 21, 23; Scipio, 14; Snowville, 23, 24; Tropic, 20; Vernal, 16, 22, 24.

OBSERVERS' REMARKS.

Corinne.—The finest agricultural rains for years have fallen during the present month.—W. E. Johnson.

Heber.—Cold, stormy conditions prevailed from the 16th to the 24th; snow and rain alternately; good growing weather during fore part of month; cold and chilly during the latter part.—John Crook.

Henefer.—Temperatures below normal; precipitation normal; crops have just begun to grow.—William Brewer.

Huntsville.—A cold month; all vegetation backward; no killing frosts observed.—Lars Petersen.

Meadowville.—The month was very cold; the storm of the 20th–23rd was quite beneficial to crops; vegetation as a rule is very backward; some lucerne was winter-killed.—J. S. Moffat.

Vernal.—Prospects are excellent for water.—R. Veltman.

Black Rock.—Good growing weather prevailed as a rule, although the nights generally have been cool; vegetation has come almost to a standstill.—Willard Burbank.

Callao.—There has been more rain during the past month in this vicinity than for a number of years.—E. E. Edwards.

Emery.—The month was very dry up to the 26th, when a shower occurred that was the best in three years at this time of the year.—H. C. Wickman.

Government Creek.—The month was cold and during the latter part quite stormy; the crops are growing slowly.—Walter James.

Mount Nebo.—All vegetation is late this month, but is doing well since the rains; precipitation is above the average; no fruit damaged by frost; alfalfa and grain look well.—Mrs. Frank Roberts.

Aneth.—An unusually cold May; the frost of the 19th was an unheard of phenomenon for this region at so late a date.—H. R. Antes.

Frisco.—The range has had a good soaking and it is now in fine condition; fruit at Wah Wah Springs was not damaged by frost.—S. N. Slaughter.

Grover.—Cold, changeable weather prevailed during the month; trees very backward and not yet fully leafed out; range feed becoming very plentiful; lucerne and other crops slightly damaged by frost during the month.—Henry Cullum.

Kanab.—The frost on the 19th killed much of the fruit.—Z. K. Judd.

Marysvale.—Vegetation very backward; ground too cold for germination of seed; considerable fruit killed by frost; much of the lucerne crop was winter-killed.—George T. Henry.

Pinto.—A very pleasant month, on the whole, conducive to good growth of crops; some grain was killed by frost on the 18th.—John H. Hanson.

Ranch.—Dry and windy weather prevailed during the fore part of the month, cold and stormy during the latter part; generally too cold for crops; some grain just coming up; all crops are in poor condition.—J. W. Seaman.

St. George.—Strawberries were ripe on the 1st; peas on the 3rd; and string beans on the 15th.—James G. Bleak.

Tropic.—The month was exceptionally cold; vegetation grew very slowly; peaches and plums were badly damaged by frosts; grain will make a good crop; plenty of water for irrigation.—Edw. P. Bolton.

CROP CONDITIONS.

During the fore part of the month farm work advanced rapidly owing to the favorable weather conditions, and the sowing of small grain was practically completed by the middle of the month. Spring wheat made a fair growth, and the early-sown had come up to a good stand by the close of the month, with the late-

sown just about coming up. Fall wheat will fall far short of an average crop, the stand being reported as very thin. A perceptible improvement in the crop was noted toward the close of the month, the late rains having exercised a very beneficial effect, especially on that portion planted in dry ground. Alfalfa will also be short, as much of it was winter-killed. What remained was in good condition and making a rapid growth. Cutting for hay was a matter of the near future. Early-sown beets progressed fairly well during the month and by the close were being thinned out. The germination of the late-sown in dry ground was considerably retarded during the fore part of the month by reason of the prevailing dry weather, but the heavy rains during the latter part had the effect of starting the seed and at the close the late-sown crop was coming up rapidly. Corn was practically all planted and was coming up. The crop had a poor color and in general its condition left much to be desired. Some slight improvement was, however, being noted. Oats were in good condition and making good growth. Potatoes and tomatoes had been planted, with the early-planted coming up and looking well. Fruit made fair progress during the month and the prospects were bright for fair crops of all kinds of fruit. The damage by frost had been found to be greatly exaggerated. Grass was in good condition and making rapid growth. The range was affording ample sustenance for stock. The supply of irrigation water had been replenished by the heavy precipitation and the ground thoroughly soaked, so that conditions at the close of the month were extremely favorable for the rapid growth of all vegetation.

GREAT SALT LAKE.

The level of the water was 2 feet and 4 inches below the zero of the gage on May 1st and 15th, the stage of the lake remaining practically stationary during the fore part of the month. On June 1st, however, the gage read 2 feet and 2 inches below zero, the excessive rains during the latter part of the month causing a slight rise in the stage of the water. May 1st and 15th, 1902, the level of the water was at 4 inches below the zero.

Comparative Temperature and Precipitation Data for May during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	54.8	98	20	1.55
1893	54.8	96	12	0.77
1894	58.2	98	10	0.44
1895	57.0	99	19	1.16
1896	51.0	104	12	1.52
1897	60.2	104	12	0.42
1898	53.2	94	20	3.02
1899	52.8	96	15	0.79
1900	59.5	101	21	0.36
1901	59.3	98	15	1.29
1902	56.2	99	13	0.64
1903	53.3	100	15	1.60

ERRATA FOR APRIL REPORT.

La Sal.—Mean minimum temperature recorded 32.7°, should be 32.4; mean temperature recorded 43.4°, should be 43.2°.

Ft. Duchesne.—Amount of precipitation, blank, should be none.

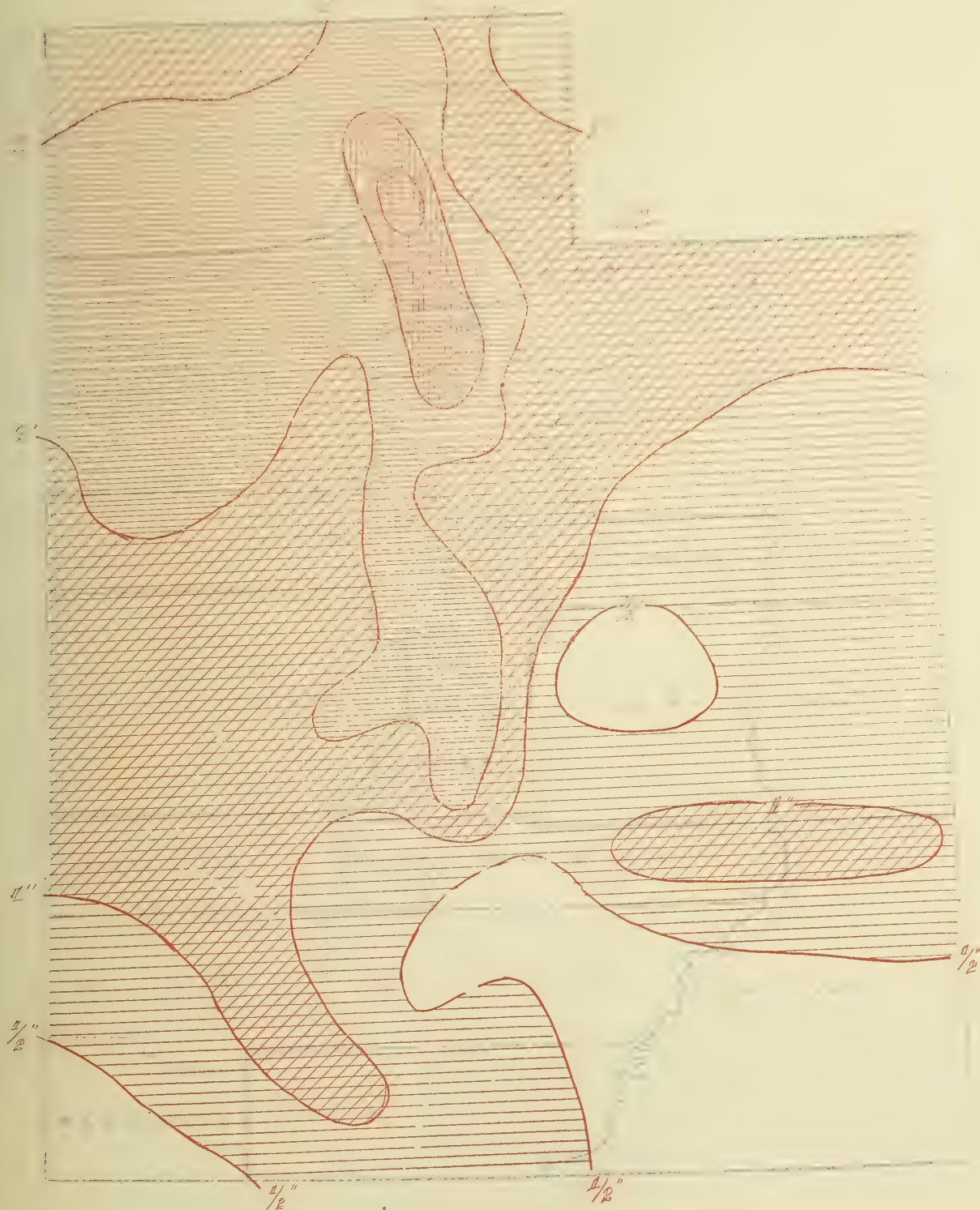
CLIMATOLOGICAL DATA FOR UTAH, MAY, 1903.

Sections and stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit					Precipitation, in inches					Sky					Remarks
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Coldest.	Time.	Normal.	Excess from the normal.	Deficit from the normal.	Days with rain.	Days with snow.	Days with fog.	Days with hail.	
NORTHERN.																			
Alpine.	Utah	4,950	7																T. B. Whitty
Blue Creek.	Box Elder	4,387	25	60.5	-1.6	95	13	30	13	30	2.50	+1.07	0.76	1.14	8	1	1	1	Agent So. Pacific Co.
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	W. E. Johnson
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Frank Tucker
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Charles Royan
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Paul Sisson
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	John Crook
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	William Brewer
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Louis Peterson
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Agent So. Pacific Co.
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	James Dryden
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	J. S. Moffat
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	T. E. Yates
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	T. R. G. Weech
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	John Adams
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Enoch Farr
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	W. H. Chevers
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	J. H. Hance
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Weather Bureau
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Agent So. Pacific Co.
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Section Center
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Joseph Robb
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	A. W. Davis
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	I. J. Elkington
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	Richard Ventman
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	William Chatterton
Box Elder.	Box Elder	4,387	25	58.0	-6.2	95	13	30	13	30	3.01	+1.88	1.14	8	14	6	1	1	T. J. Tingey
Averages				52.3	-4.8						2.26	+0.92	3.6	7	16	6	9	W.	
MIDDLE.																			
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Willard Burbank
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	E. E. Edwards
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	James Jeffs
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	H. T. Matthews
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	S. W. Westcott
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	H. C. Wickham
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	J. J. Starley
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	E. M. Smith
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Walter James
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Weather Bureau
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	J. T. Farrer, Jr.
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Owen Sheridan
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	William Brown
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	W. M. Harmon
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Mrs. Frank Roberts
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Caleb Roberts
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	John Tanner
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	J. M. Lauritzen
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Thomas Mammott
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	Ag't Rio Grande R. R.
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	E. T. Olson
Black Rock.	Millard	5,802	3	53.2	-4.8	88	13	28	3	17	1.72	+1.22	0.80	10.6	6	14	7	16	E. E. Branch
Averages				53.3	-1.3						1.63	+0.93	4.6	6	14	9	8	n.	
SOUTHERN.																			
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	H. R. Antes
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	H. J. McCullough
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	W. G. Bleak
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	S. N. Slaughter
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	J. C. White
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	Henry Cullum
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	F. W. Gibbons
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	Z. K. Judd
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	Mrs. G. W. Carpenter
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	H. M. Hansen
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	B. R. Transeau
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	G. T. Henry
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	R. W. Dotson
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	Henry Crouse
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	Weather Bureau
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	John Bailey
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.12	+0.12	0.09	2	19	9	3	w.	James Connell
Aneth.	San Juan	4,800	3	60.4	-4.4	89	31	33	18	44	0.1								

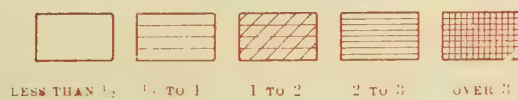
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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* indicates 100: *1, 101, etc.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, MAY, 1903.

Sections and stations.	Day of month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine																		.47	.40	.70	.20	.31	.25	.76				.63					3.72	
Blue Creek									.05								.16		.40	.75	.20	.10	.30			.60							2.50	
Corinne									.04								.08	.33		1.14	.44	.33	.06				.59						3.01	
Evanston, Wyo.									T.								.09	.11	.16	.48	.16	.14	.04	.33									1.51	
Farmington									T.								.15	.32	.12	T.	.30	.94	.24	.15	.39			.84					3.45	
Ft. Duchesne																	.70				.05	.10						.17					1.02	
Heber																	.20		.10	.26	.14	.10	.22	.40				T.					1.42	
Henefer	T.													T.			T.	.15	.45	.06	.46	.17	.05	.25				.14	.03				1.78	
Huntsville										.02							T.	.98	.38	.44			T.	.14			.09							2.03
Kelton																					.30			.65			.40	.10					1.45	
Logan									.02								T.	.68				1.38	.12	.26			.43						2.89	
Meadowville									T.								T.	T.		.20	.20			.50									0.90	
Millville									.33					T.			.22	.30	.05	T.	.65	.94	.03	.07	.09		.31						2.99	
Morgan														T.			.05	.78		.07	.26	.10	.30	.34		.27	.07					2.24		
Oakley, Idaho																.10					.40	.10					.44						1.04	
Ogden No. I.																.11	.06	.68	.01	.04	1.80	.55	T.	.21	T.		.84	.04				4.34		
Ogden No. II.																				.30	.45	.10											0.85	
Park City									T.	T.				T.	T.		.20	.62	.32	T.	.60	.30	.30	.25			.10	.20					2.98	
Pocatello, Idaho		.02							.03								.04	.53	.72	T.	T.	.14	.23	T.	.07	T.		.40					2.18	
Promontory											T.																							
Salt Lake City																	.66	.24	.14	.03	T.	1.01	.70	.22	.49		.66						3.55	
Snowville									.05								.15		.10			.42	.15	.32		.50							1.69	
Terrace																					.80	.80	.75	.50		.20	T.						3.05	
Tooele									T.								T.	.13	.03				.45	.19	.09			.71					1.60	
Vernal																		.92	.05			.09	.17	.04			T.	.03				1.30		
Weston, Idaho									.03								.17	.38	.10		.01	.67	.22		.19	.01	.33	.34					2.45	
Woodruff	T.																T.	T.			T.	.48		T.	.60								1.08	
MIDDLE.																																		
Black Rock																	.80	.43	T.	T.		.13	.06	.12	T.			.18					1.72	
Callao																.03						.83	.55	.33	.22		.30						2.56	
Castle Dale																											.13						0.13	
Cisco																																		
Deseret																																		
Emery																					T.												0.65	
Fillmore																	.60	.38	.01		.20	.17	.12	.23	.28	T.	.65						2.27	
Garrison																	.42	.40				T.	.13	.05	.04		.04						1.16	
Government Creek											T.						T.	.10	.18		.11	.48	.25	.30	.18		.50						2.10	
Grand Junction, Colo.										.09						.01		.32			.06	.25	.20		T.		.10	.24					1.21	
Green River																	.25					T.	.10				.32						0.67	
Hatch																				.79		.59	.30				.23						1.91	
Ibapah																						.53	.26	.12	.38		.24						2.26	
Levan									T.					T.	.05		.56	.12			.62	.20		.32					.39				2.20	
Manti																				.07		.24	.18	.25	.10	.20		.18					1.78	
Mount Nebo																	.45	.14	.04			.12	.22				.17						1.49	
Mount Pleasant																	.46	.11	.06			.31	.24			.04							1.49	
Provo											T.						.25	.58	.18	T.	T.	.60	.32	.23	.27	T.		.25	.01				2.69	
Richfield																	.50				.10	.30	.26	.10	.10	.02		.07					1.39	
Scipio									T.								.74	.24		T.	T.	.14	.06	.05	.66	T.	T.	T.					1.96	
Soldier Summit																																		
Thistle																	.10		.30		.45	.20	.10	.35	.10								1.60	
Wellington																.21						.21		.03			.37						0.82	
SOUTHERN.																																		
Aneth																	.09						.03										0.12	
Coyote																	T.	T.				T.	.43	T.			.10						0.53	
Escalante																.05		.05				.40											0.60	
Frisco																					T.	.49	T.	.11	T.	.02		.17					1.88	
Giles								T.									.50					.40	.10										1.12	
Grover (near)														T.	T.		T.	.20				.02				T.		.10					0.32	
Hite																		.23		T.	T.												0.23	
Kanab																							.71										0.71	
La Sal									T.							.01	.63	.03			.01	.15					.22						1.05	
Loa																									.10		.15						0.65	
Lund																	.08	.22				.09	.47	.02			.01						0.89	
Marysvale (near)																				T.		.21	.25	.05	.16	T.		.02					0.81	
Minersville																																		
Moab						T.											T.	T.	.64			.07			T.		.04	.09					0.84	
Modena																					T.	.10	.10	.04	.03	.26		.01					0.55	
Monticello																		.35				.03	.08										0.46	
Parowan	T.																.14	.40				T.	.21	.06		T.	T.	.29					1.10	
Pinto																																		

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

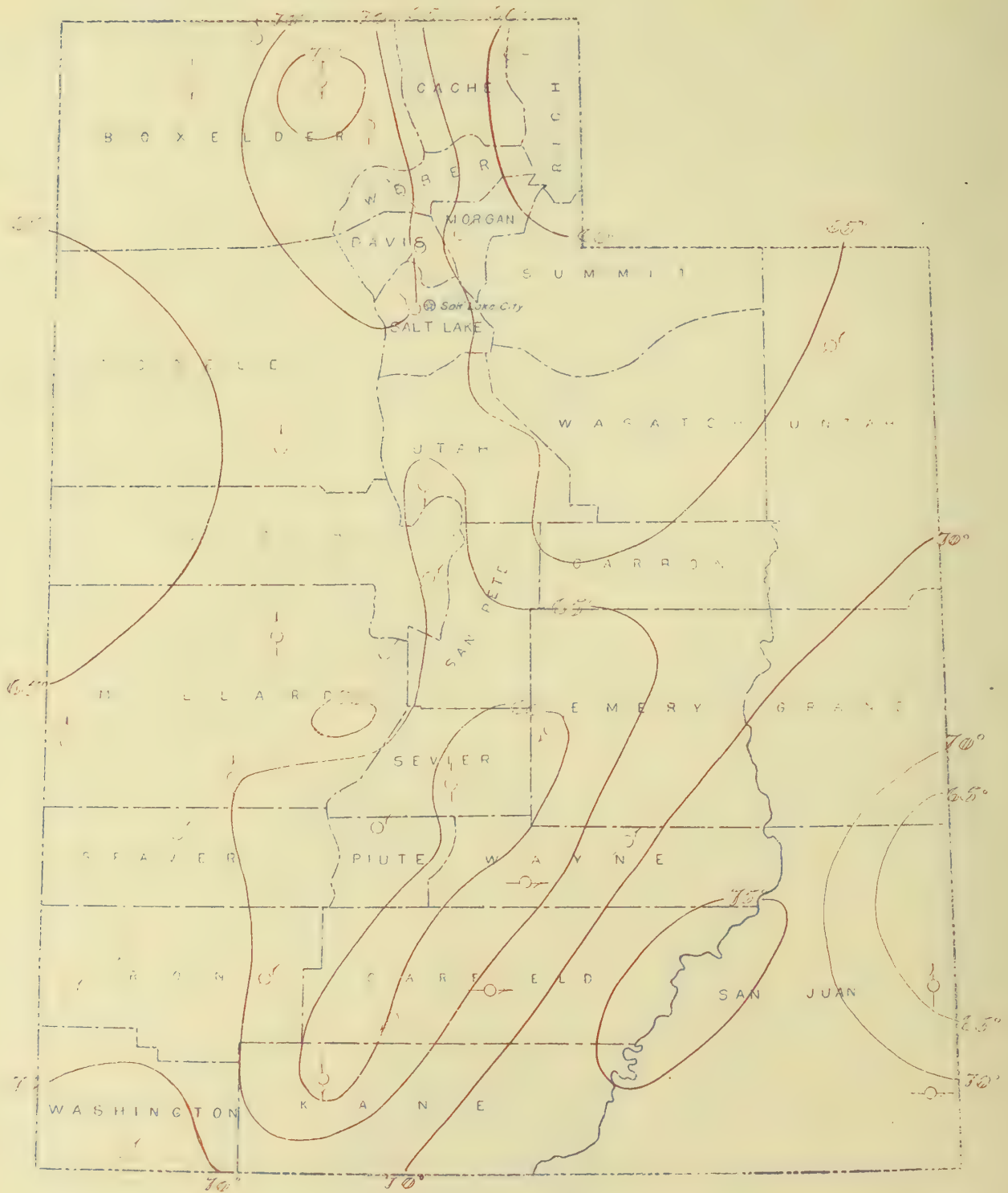
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

No. 8.

WEATHER.

The weather during the month presented no unusual features. Clear skies generally prevailed, especially during the latter part of the month, and midday temperatures were quite high, though the nights were usually somewhat cool. Throughout the Northern and Middle portions of the Section the temperatures were above the normal and the rainfall deficient, while reverse conditions prevailed throughout the Southern portion. The precipitation was produced almost entirely by local showers of rain, accompanied in many instances by hail, and for this reason was very unevenly distributed; particularly was this the case throughout the Southern portion where stations comparatively near to each other exhibited marked differences in the amount of rainfall recorded during the month.

TEMPERATURE.

The mean temperature for the Section, determined from the reports of 55 stations, was 65.7° , or 0.8° above the normal. The highest local monthly mean was 77.8° at Hite; the lowest was 57.8° at Ranch and at Woodruff. The highest temperature recorded was 110° at St. George on the 27th; the lowest was 27° at Loa on the 3rd and 6th, giving an absolute range for the Section of 83° . The greatest daily range for any station was 55° at Castle Dale on the 2nd. The highest temperatures of the month were generally recorded on the 27th and 28th; the lowest temperatures occurred at different periods throughout the various portions of the Section.

PRECIPITATION.

The average precipitation, determined from the reports of 58 stations, was 0.47 inch, or 0.10 inch below the normal. A deficiency occurred over the Northern and Middle portions, while the Southern portion had a marked excess. The greatest monthly amount was 1.72 inches at Monticello. No precipitation whatever occurred at Ogden, Soldier Summit or St. George. The greatest rainfall in any 24 consecutive hours was 0.65 inch at Escalante. No snowfall whatever is reported from any of the stations, this form of precipitation having occurred only over the high mountain ranges of the Section, and even then in very small amounts.

WIND AND WEATHER.

The prevailing directions of the wind were south and southwest. The total number of miles recorded at Salt Lake City was 4,779; at Modena, 8,060; at Grand Junction, Colo., 3,823; and at Pocatello, Idaho, 5,464. The maximum velocity at Salt Lake City was 34 miles from the east on the 16th; at Modena, 43 miles from the southwest on the 29th; at Grand Junction, Colo., 22 miles from the southwest on the 3rd; and at Pocatello, Idaho, 28 miles from the southwest on the 2nd.

The average number of clear days during the month was 17; partly cloudy days, 8; cloudy days, 5. Determined from the automatic sunshine record, Salt Lake City had 73 per cent; Modena 72 per cent; Grand Junction, Colo., 75 per cent; and Pocatello, Idaho, 79 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 56 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 38 per cent, the lowest observed reading being 15 per cent on the 18th and 19th; at Modena, 31 per cent, the lowest observed reading being 6 per cent on several dates; at Grand Junction, Colo., 46 per cent, the lowest observed reading being 7 per cent on the 29th; at Pocatello, Idaho, 54 per cent, the lowest observed reading being 24 per cent on the 27th.

There was an average of only 3 days with .01 inch or more precipitation; 2 over the Northern, 3 over the Middle, and 5 over the Southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence.)

Coronae, lunar.—Marysval, 5.

Halos, solar.—Emery, 28; Levan, 22.

Hail.—Aneth, 13; Giles, 8; Grover, 10; La Sal, 7; Meadowville, 15; Salt Lake City, 9, 16; Scipio, 10; Tropic, 13.

High winds.—Aneth, 1, 3-6; Deseret, 1, 6, 9, 15, 16, 22; Emery, 30; Farmington, 10; Frisco, 29; Government Creek, 14; Levan, 29; Lund, 28; Moab, 22, 29; Ogden, 10; St. George, 2, 4, 5, 16, 22, 26; Salt Lake City, 1, 3, 8, 9, 15, 16, 22, 29.

Thunderstorms.—Aneth, 1, 3, 5, 9, 10, 13, 14; Deseret, 9, 10; Farmington, 15; Ft. Duchesne, 13; Frisco, 3, 9, 11; Garrison, 4, 9, 11; Government Creek, 1, 2, 5-7, 10, 11; Giles, 7, 8, 11, 13, 14; Grover, 10, 28; Heber, 1-4, 7, 9, 11-14; Henefer, 1, 2, 4-6, 11, 12, 14; Hite, 9, 11; La Sal, 2, 4, 6, 7; Levan, 1, 2, 6, 7, 9, 10, 14, 15; Lund, 1, 4, 6-9, 11; Marysval, 3, 9-11, 13, 14; Meadowville, 2, 15, 22; Moab, 2, 3, 7-14; Modena, 1, 3, 4, 6-8, 11; Morgan, 2, 3, 11, 12, 14-16; Mount Nebo, 6, 9-11, 14; Ogden, 2, 6, 7, 9, 11; Parowan, 1, 5, 7, 8, 10, 11; Ranch, 1, 4, 7, 10, 11, 13; St. George, 6-8; Salt Lake City, 2, 7, 9, 11, 14, 15; Scipio, 10, 11; Snowville, 10-12; Tropic, 1-4, 6, 7, 9, 10, 14; Vernal, 3, 6, 11, 13-15, 20.

OBSERVERS' REMARKS.

Black Rock.—The month as a whole was one of good weather, although more precipitation would have left crops in better condition at the end of the month.—Willard Burbank.

Deseret.—June was a very pleasant month; crops made very satisfactory advancement; the lucerne crop was above the average; irrigation water supply is insufficient.—S. W. Western.

Emery.—The month was favorable to all crops; rain from 8th to 12th did much toward invigorating plant growth; water for irrigation continues plentiful.—H. C. Wickman.

Government Creek.—The weather during the month was decidedly favorable to all crops; crops generally are doing well; the first crop of alfalfa is about an average crop; fruit is doing well and promises heavy yields, except apples, which are a failure; the range is in good condition; crickets are very numerous.—Walter James.

Grover.—Lucerne is in good condition; pastures are in excellent condition; other vegetation thrives well.—Henry Cullum.

Heber.—Thunderstorms were general in this vicinity, but little precipitation occurred; no injurious frosts occurred.—John Crook.

Henefer.—The precipitation was below the average for June; frosts did no damage in this vicinity; the range needs rain to refresh the grass; on irrigated lands crops generally made very satisfactory advancement.—Wm. Brewer.

Huntsville.—The past June was a pleasant and an ideal month for staple products in this locality.—Lars Petersen.

Marysville.—Vegetation is deteriorating through lack of rain.—Geo. T. Henry.

Meadowville.—This was one of the finest months in several years; grain, grass and lucerne made very rapid growth.—J. S. Moffat.

Ranch.—The weather during the month favored all crops; rain was sufficient for grain; alfalfa is yielding light; vegetation is progressing rapidly.

Salt Lake.—Crops generally made satisfactory advancement during the month, and at the close grain and vegetables were in good condition; hay was nearly all harvested; cherries are yielding heavily and are of good quality; the markets are well stocked with fruit and berries from the local producers; peaches promise a light yield; irrigation water is sufficient to mature most crops.—Central Office.

Tropic.—The first crop of lucerne was saved in good condition, but the tonnage was light, owing to the cold weather in the early spring; grain, corn and potatoes are in thrifty condition; range feed is abundant and stock are in good condition.—Edw. P. Bolton.

Vernal.—The range is in good condition; hay, grain, truck and fruit promise well; there is sufficient irrigation water in sight to mature the crops.—R. Veltman.

CROP CONDITIONS.

The clear, dry weather during the month produced contrary effects on growing vegetation according as to whether the soil was watered or not. Irrigated crops everywhere made rapid growth and were doing well, but dry land crops suffered greatly through lack of moisture, the deteriorating effects of which were becoming more apparent toward the close of the month, as the dryness continued. Fall wheat began to head early in the month and by the close the crop was so far advanced that cutting had begun in the extreme southern counties of the state. The stand is reported as being thin and a short crop only is expected. Spring wheat and oats advanced rapidly and by the close of the

month the condition and stand of these crops were very good and expectations of excellent yields were generally entertained. Alfalfa began to blossom early in the month. Cutting was begun about the second decade and continued under rapid headway during the remainder of the month, the weather being generally favorable. While in many localities yields have been disappointing, yet the majority of correspondents report the harvest as being up to the average. Sugar beets made good progress, and had already been thinned early in the month. The crop was in good condition generally and the prospects were bright for good yields. The condition of fruit was satisfactory, and indications point to fair crops of all kinds with the possible exception of apples. Early cherries began to ripen toward the close of the month, and some were being picked and marketed. Early potatoes came in bloom in the latter part of the month. Pastures were beginning to show the effects of the extreme dryness and were sadly in need of moisture. Water for irrigation was holding out well, but a steady decrease in the supply was being noted.

GREAT SALT LAKE.

For some time past it had become more and more apparent to the Section Director that the readings of the stage of water at the lake were unreliable and misleading, an impression that was confirmed on personal investigation. These readings have heretofore been taken from a gage placed out in the lake from Garfield Beach, which had been installed when the recession of the waters rendered the old gage at that point useless. No exact methods had been adopted to connect the zero of the new gage with the old, and the readings would therefore necessarily be inaccurate. For this reason the Section Director has decided to place a permanent gage in position at Saltair, some 6 miles distant, and will use as zero the zero mark of the old gage at Garfield Beach. It will be impossible to instal the gage for some time, and in the meantime the stage of the water will be procured from a temporary gage now in position at Saltair.

Comparative Temperature and Precipitation Data for June during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	65.0	116	22	0.46
1893	64.0	105	19	0.02
1894	61.5	106	15	0.84
1895	62.8	106	18	0.43
1896	70.0	112	21	0.20
1897	63.2	104	20	0.25
1898	65.2	110	22	0.78
1899	64.0	110	21	0.58
1900	69.7	111	30	0.16
1901	63.3	109	19	0.25
1902	66.9	114	21	0.17
1903	65.7	110	27	0.47

CLIMATE AND CROPS: UTAH SECTION.

CLIMATOLOGICAL DATA FOR UTAH, JUNE, 1903.

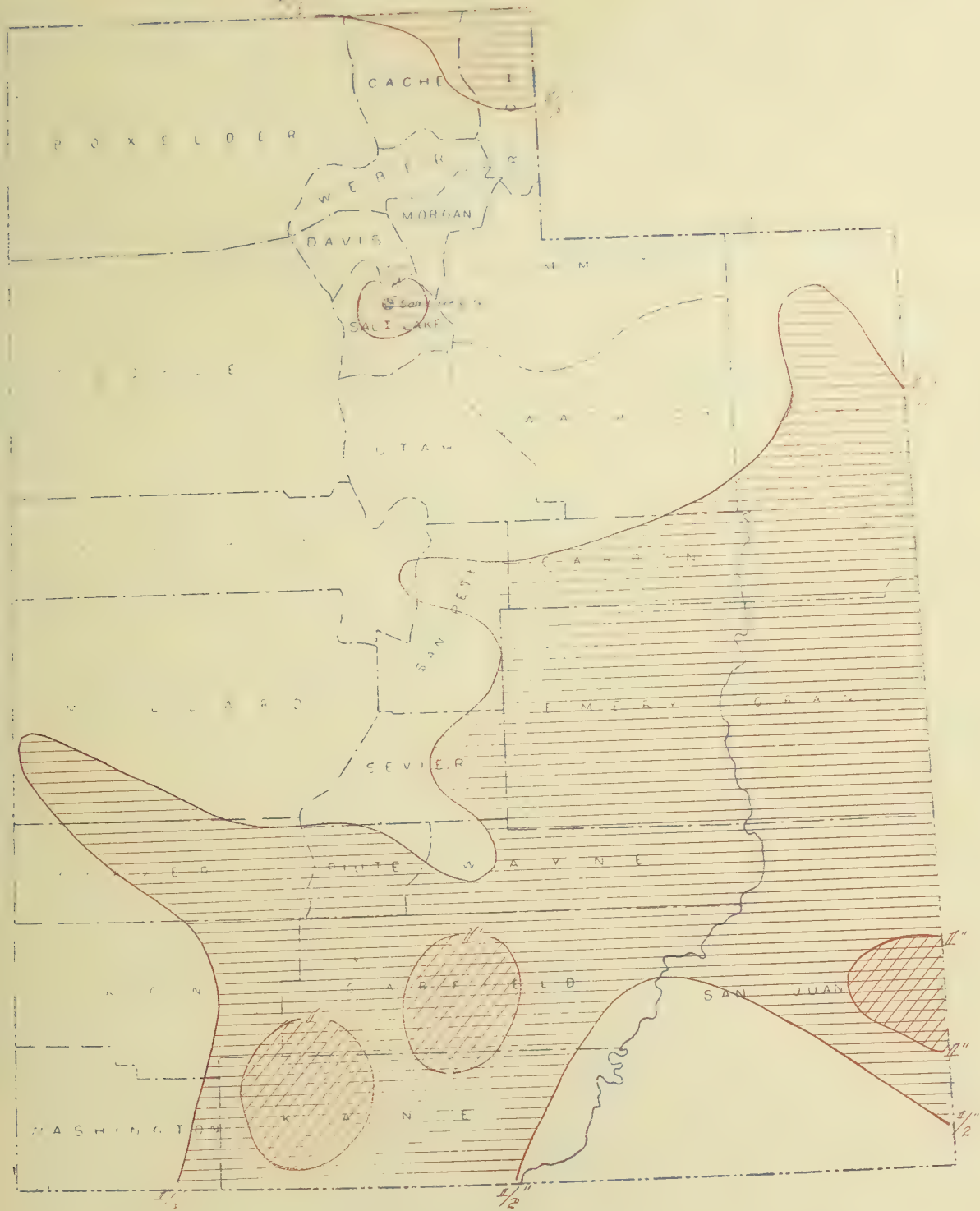
Sections and stations	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches.				Sky.				Prevailing direction of wind	Observations	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall accumulated.	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				T. B. Whitby.
Alpine.	Utah	4,900	7								T.	-0.18	T.		0	26	2	0	n.	Agent So. Pacific Co.
Blue Creek	Box Elder	4,387	25								0.15	-0.38	0.15		1	21	6	0	n.	W. E. Johnson.
Corinne	Box Elder	4,270	22	70.8	-0.6	90	28	40	25	40	0.15	-0.10	0.07		5	23	2	0	sw.	Frank Tucker.
Evansville, Wyo.	Uintah	6,950	2	50.0	+1.1	82	28	33	24	15	0.10	0.10	0.09		1	22	2	0	ne	Charles Boylin.
Farmington	Davis	4,267	2	60.2	+2.0	91	20	48	4	38	0.10	0.18	0.08		1	20	0	1	ne	Post Surgeon.
Ft. Duchesne.	Uintah	5,000	15	68.2	-0.7	98	20	44	25	11	0.28	+0.08	0.28		3	19	9	2	s.	John Crook.
Haber	Wasatch	5,000	10	61.8	+2.4	92	28	36	14	30	0.28	0.15	0.12		3	19	11	0	w.	William Brewer.
Hemefer	Summit	5,301	4	61.0	+1.4	80	28	35	4	48	0.13	-0.12	0.08		3	22	14	1		Lars Petersen.
Huntsville	Weber	5,100	8								0.21	-0.30	0.11		2	15	0	7	n.	Agent So. Pacific Co.
Kelton	Box Elder	4,230	25	68.2	-2.3	91	20	48	24	42	0.25	-0.30	0.28		1				w.	James Dryden.
Logan	Cache	4,507	12	67.0	+3.0	86	28	46	24	30	0.25	+0.05	0.05		3	23	0	1	w.	J. S. Moffat.
Meadowville	Rich.	6,200	4	50.2	+2.4	83	27	37	11	10	1.00	-0.13	0.34		3				sw.	Fred. Yeates.
Mt.ville	Cache	4,848	8								0.40	-0.13	0.34		3				sw.	T. R. G. Welch.
Morgan	Morgan	4,191	10	65.0	+1.5	90	25	37	21	40	0.70	+0.18	0.30		5	18	6	6	s.	John Adams.
Oakley, Idaho	Cassia	4,310	2	70.6		93	27	53	23	30	0.00	-0.00	0.00		0	22	7	0	se.	Enoch Farr.
Ogden No. 1 T. I.	Weber	4,310	2	68.6	-3.4	80	29	38	2		0.00	-0.57	0.00		0	20	0	4	se.	W. H. Chevers.
Park City	Summit	6,840	6	63.8	+5.0	101	28	57	4	52	T.	-0.15	T.		0				sw.	M. H. White.
Pocatello, Idaho	Bannock	4,488	3	63.3	+3.3	87	27	42	21	30	0.82	-0.82	0.27		5	13	10	1	e.	Weather Bureau.
Promontory†	Box Elder	4,913	33									-0.05	0.53		2	14	14	2	se.	Agent So. Pacific Co.
Salt Lake City	Salt Lake	4,300	29	70.1	+3.5	91	28	51	1	31	0.74	-0.04	0.38		2	15	13	2	s.	Section Center.
Snowville.	Box Elder	4,200	13	64.4	+2.8	91	27	37	23	50	0.40	+0.69	0.20		2	14	0	16	w.	Joseph Robbins.
Terrace	Box Elder	4,550	53	68.8	-3.5	91	27	36	30	40	0.35	-0.51	0.42		2	24	5	1	s.	A. W. Davis.
Tooele	Box Elder	4,900	7	69.0	+2.0	92	28	49	3	31	0.19	-0.51	0.42		8	13	17	0	sw.	I. J. Elkington.
Ureah	Tooele	5,130	8	67.6	+0.8	93	28	43	1	40	0.89	+0.54	0.51		5	15	7	8	n.	Richard Veltman.
Vernal	Utah	4,100	5	61.2	+2.3	92	27	37	21	47	0.58	+0.08	0.42		5	15	7	8	n.	William Chatterton.
Weston, Idaho	Oneida	4,100	5	57.8	+2.3	87	28	32	24	49	0.22	-0.75	0.22		1	8	9	13	n.	T. J. Tingey.
Woodruff	Rich.	6,500	6																	
Averages				65.9	+0.2						0.29	0.19			2	19	7	4	n.	
MIDDLE.																				Willard Burbank.
Black Rock.	Millard	5,802	3	64.8	0	91	26	41	17	45	0.33	0.11	0.14		4	17	10	3	s.	E. E. Edwards.
Callao	Juab		1																	James Jeffs.
Castle Dale	Emery	5,500	4	63.8	-2.0	90	28	31	4	55	1.01	+0.85	0.30		8	17	13	0		H. T. Matthews.
Cisco	Grand	4,385	11																	S. W. Western.
Deseret.	Millard	4,511	9	67.0	+0.9	98	28	46	25	50	0.10	+0.10	0.30		2	18	8	4	s.	H. C. Wickman.
Emery	Emery	6,200	3	58.7	-2.1	80	25	39	4	36	0.85	-0.85	0.52		2	7	7	10	ne.	J. J. Starley.
Fillmore	Millard	5,100	13	71.0	+3.3	102	28	46	*5	48	0.64	-0.53	0.02		2					E. M. Smith.
Garrison	Millard			66.6		97	28	36	6	40	0.54	-0.06	0.16		2	18	9	3	s.	Walter James.
Gov't Creek	Tooele	5,277	3	66.2	+1.0	93	28	41	1	41	1.44	-0.16	0.06		3	18	11	1	s.	Weather Bureau.
Grand Junction, Colo.	Mesa	4,608	12	70.9	-0.9	90	20	47	4	37	1.22	+0.87	0.78		9	12	14	4	se.	J. T. Farrer, Jr.
Green River §	Emery	4,080	6	70.8	+7.0	107	28	47	4	47	0.05	-0.05	0.08		1	20	6	4		Owen Sheridan.
Hopah	Tooele			62.5		91	28	37	25	54	0.41	-0.20	0.20		4	10	0	11	sw.	William Brown.
Levan	Juab	5,010	13	64.8	+0.4	92	28	41	25	40	0.18	-0.07	0.31		1	20	9	1	sw.	W. M. Harmon.
Manti	San Pete	5,575	9	63.6	-4.0	91	29	42	18	42	0.28	+0.20	0.13		4	20	4			Mrs. Frank Roberts.
Mount Nebo - T. I.	Utah	4,050	2	64.6		98	28	41	13	46	T.	T.			0	12	14	3	n.	Web. Greene.
Mount Pleasant.	San Pete	5,889	11	65.6	+0.7	95	28	44	10	40	0.59	+0.14	0.29		3	13	7	0	w.	Caleb Tanner.
Provo	Utah	4,532	11	65.6	+1.1	93	7	41	25	46	0.30	0.19	0.13		3	17	13	0	w.	J. M. Lauritzen.
Richfield.	Sevier	5,323	13	63.9	-0.3	93	29	33	22	53	T.	-0.28	T.		0	20	10	0		Thomas Memmott.
Scipio	Millard	5,200	8	66.8	+2.3	98	28	32	21	52	0.30	+0.04	0.19		5	15	10	5	sw.	Ag't Rio Grande R.R.
Soldier Summit	Utah	7,471	11	60.7	+5.0	90	28	32	8	53	0.00	-0.18	0.00		0	10	0	11		E. T. Olson.
Thistle	Utah	5,075	11	68.7	+0.2	96	28	44	16	40	0.35	0	0.75		2	28	0	2		E. E. Branch.
Wellington - T. I.	Carbon	5,510	4	66.0	+0.9	97	28	35	1	51	0.03	+0.73	0.39		3	11	15	3		
Averages				65.0	+2.4						0.39	0.16			3	17	9	1	s.	
SOUTHERN.																				H. R. Antes.
Aneth	San Juan	4,800	3	70.9	-2.4	101	*27	46	1	48	0.51	+0.01	0.28		4	15	14	1	w.	H. J. McCullough.
Covoto	Garfield		2																	W. G. Bleak.
Escudante	Garfield	5,700	3	66.4		90	27	45	*5	41	1.43		0.95		5	11	13	6	w.	S. N. Slaughter.
Frisco	Beaver	7,318	9	69.7	+0.5	98	27	47	12	40	0.50	+0.36	0.35		3	11	11	5	sw.	J. C. White.
Giles	Wayne	4,000	8	60.7	-1.2	104	27	43	5	53	0.15	+0.50	0.10		0	19	8	3	w.	Henry Cullum.
Grover (near).	Wayne	5,800	7	63.8	+1.4	92	*26	41	4	41	0.80	+0.42	0.30		4	8	18	4	w.	F. W. Gibbons.
Hite	Garfield	3,000	4	77.8	-2.4	100	27	55	1	42	0.50	+0.50	0.31		3	17	10	3		Z. K. Judd.
Kanab	Kane	4,925	3	69.1		93	*27	43	14	36	1.08	+1.55	0.57		11	10	14	5		Mrs. G. W. Carpenter.
La Sal - T. I.	San Juan	7,060	3	61.2	-2.2	88	*27	47	*3	54	0.35	+0.10	0.11		4	9	11	3		Michael Hansen.
Lon	Wayne	7,000	11	58.4	-1.0	98	*25	40	17	49	0.08		0.15		2	23	5	1	ne.	B. R. Transeau.
Lund - T. I.	Iron	5,092	3	67.6		99	*26	39	*5	40	0.50	-0.23	0.15		8	12	6	12	sw.	G. T. Henry.
Marysville (near).	Piute	6,180	4	62.5	-0.4	92	*26	39												R. W. Dotson.
Minersville	Beaver	5,070	6																	Henry Crouse.
Moab	Grand	4,000	14	71.3	-1.2	101	20	48	1	47	0.70	+0.51	0.35		8	7	17	6		Weather Bureau.
Modena	Iron	5,179	3	65.7		94	28	41	15	45	0.13		0.06		5	21	7	2	sw.	John Bailey.
Monticello	San Juan	7,280	1	63.2		88	*26	40	17	46	0.19	+0.28	0.32		5	14	12	4	sw.	James Connell.
Parowan	Iron	5,970	12	64.8	+0.1	93	*27	47	15	52	0.17	-0.13	0.11		4	15	7	8	s.	J. H. Harrison.
Pinto	Washington	5,970	6	59.4	-1.9	89	*27	32	25	50	0.47		0.18		7	15	13	2	n.	W. H. Schock.
Plateau	Sevier	7,060	1	58.4		90	28	34	10	45	1.50		0.60		0	10	1	13	n.	J. W. Seaman.
Ranch	Kane	6,700	2	57.8		88														

* Also on subsequent dates. + Temperature data from 7 a. m., 2 p. m., and 9 p. m. readings.
Figures following name of station indicate the number

MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, JUNE, 1903.

Indicate for: ²/₂, iii. etc.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



LESS THAN $\frac{1}{2}$ $\frac{1}{2}$ TO 1 1 TO 2 2 TO 3 OVER 3

DAILY PRECIPITATION FOR UTAH, JUNE, 1903.

Sections and stations.	Day of month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine																																	
Blue Creek																																	
Corinne		.15																															
Evanston, Wyo.		.05					.07				.02	T.		.03		.02																	
Farmington															.10																		
Ft. Duchesne													.28																				
Heber		.10	T.	T.								.03	T.		.12																		
Henefer		.00	T.	T.		T.						.03	T.		T.		.08																
Huntsville		.10										.11																					
Kelton			.30																														
Logan		.25																															
Meadowville		.65	.25												.10																		
Millville	T.	.31																															
Morgan		T.	.01				T.	.01				T.			.07		T.						.03								.09		
Oakley, Idaho	.10	.10										.30	.10	.10																			
Ogden No. 1																																	
Ogden No. II																																	
Park City				T.																													
Pocatello, Idaho		.47	.16									T.	.02		.15						T.										.02	T.	
Promontory																																	
Salt Lake City		T.							T.	.53			T.		T.	.21																	
Snowville		.38										.68																					
Terrace		.20									.15																						
Toohe																																	
Vernal		.02	.02	.05	T.				.02		.54		.02	.20	.02																		
Weston, Idaho		.03	.42																				.05	.06							.02		
Woodruff			.22																														
MIDDLE.																																	
Black Rock	.03					T.		T.	.02	.14	.14			T.																			
Callao																																	
Castle Dale		.03	T.		T.		.68	.05	.25	.30	.23			.03	.04																		
Cisco																																	
Deseret	T.										.10	.30																					
Emery								T.	T.	.33		.52																					
Fillmore									.02	.02																							
Garrison	T.	T.		.16			.13	.01	.06	.10	.03	.05	T.																				
Government Creek	T.	T.					.06	.03	.05					T.																			
Grand Junction, Colo.		T.	.16	.05	.06	.05	.03	.02	T.	.06			.78		.01						T.												
Green River									.05	T.																							
Ibapah	*	.02								.08	.20	.14																					
Levan	.05	.06							T.	.31	T.					.06																	
Manti									T.	.13	T.	.03				.08	.04																
Mount Nebo										T.	T.	T.	T.	T.	T.																		
Mount Pleasant							.12		.18	.29																							
Provo		.12	T.				.13			T.					.05																		
Richfield				T.																													
Scipio	.02	.03	.03			T.	T.		.09	.19	T.		T.	T.									T.										
Soldier Summit																																	
Thistle		.10								.25																							
Wellington										.33	.39	.11		T.																			
SOUTHERN.																																	
Aneth							.28		.05				.13	.05																			
Coyoto																																	
Escalante		T.	T.	.08				T.		.10		.50		T.	.10						.65												
Frisco	T.		T.						.35	T.	.27	.04																					
Gies			.12				.15	T.		.19	.05		.04	.10																			
Grover (near)		T.	T.		T.	T.	.10		T.	.30	.25	T.		.15																			
Hite									T.	.09	.10	.31																					
Kanab							.44	.02			.50																						
La Sal		.09	.02		.13		.18	.05	.30	.11	.57	.09	.05	.09																			
Loa											.10	.08	.11	.06																			
Lund										.03	.05																						
Marysvale (near)									.08	.15	.13	.01	.08	.08																			
Minersville																																	
Moab		.01	.01		T.				T.	T.	.04	.01	.35	.16	.07	.02																	
Modena	.06	T.					.02	.02	T.	.02	.01																						
Monticello		T.	.08				.08	.20	.36	.30	.10	.32		.03	.25																		
Parowan	.05		T.		.04		T.	T.	.03	.05	.32		T.	T.																			
Pinto				.11					.03		.02	.01																					
Plateau	.02	.04	.18	.09	T.	T.	T.	T.	.01	.04	.06		T.	T.																			
Ranch	.10		T.	.11			.12		.60	T.	.48	T.	.15	T.																			
St. George																																	
Tropic	T.	T.	T.		T.		.26	T.	.35	.11	T.	T.	T.	T.	.15																		

851.
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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

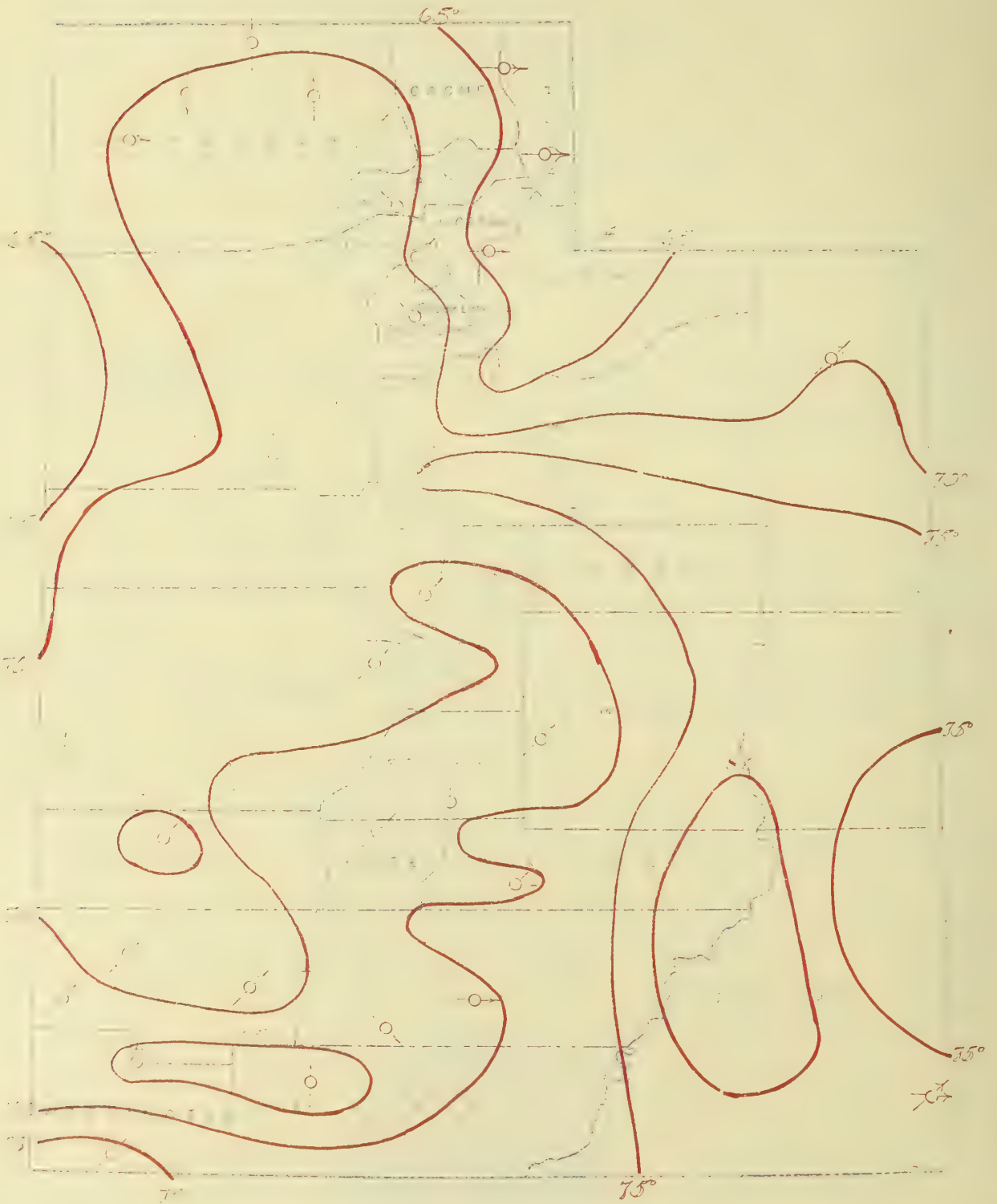
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

No. 9.

WEATHER.

Dry weather with an abundance of sunshine prevailed during the month. The air was warm during the middle of the day, temperatures considerably over 100° being recorded throughout the middle and southern portions of the section, but the nights were usually somewhat cool. A period of abnormally cool weather prevailed during the first few days of the month, causing severe frosts over extensive areas. Scattered thunderstorms occurred on the 15th and 16th and again about the 23rd, but the accompanying precipitation was generally light and insufficient. During the latter period some destructive storms occurred, notably at St. George, Washington Co., and at Heber City, Wasatch Co., that damaged vegetation and harvested crops.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 61 stations, was 71.0° , or 1.6° below the normal. The highest local monthly mean was 82.2° at Hite; the lowest was 60.4° at Ranch. The highest temperature recorded was 110° at Loa on the 20th; the lowest was 27° at Woodruff on the 4th; giving an absolute range for the section of 83° . The greatest daily range for any station was 64° at Loa on the 4th. The highest temperatures of the month were generally recorded on the 12th, 13th and 14th; and the lowest on the 3rd, 4th and 5th.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 0.52 inch, or 0.03 inch above the normal. According to the reports of the observers, a deficiency occurred over the northern portion, and an excess over the middle and southern portions, yet this excess over the latter regions was only apparent and due entirely to excessive rainfall produced by local thunderstorms at some few stations. In general precipitation was widely scattered and insufficient throughout the entire section. The greatest monthly amount was 2.00 inches at Soldier Summit. No precipitation whatever occurred at Kelton, Ogden No. 2, Promontory and Snowville. The greatest rainfall in any 24 consecutive hours was 2.00 inches at Soldier Summit on the 25th. No snowfall whatever is reported from any portion of the section.

WIND AND WEATHER.

The prevailing direction of the wind was southwest. The total number of miles recorded at Salt Lake City was 5,330;

at Modena, 10,384; at Grand Junction, Colo., 4,701; and at Pocatello, Idaho, 6,159. The maximum velocity at Salt Lake City was 47 miles from the north on the 1st; at Modena, 65 miles from the south on the 6th; at Grand Junction, Colo., 28 miles from the southwest on the 6th; and at Pocatello, Idaho, 36 miles from the west on the 1st.

The average number of clear days during the month was 20; partly cloudy days, 7; cloudy days, 4. Determined from the automatic sunshine record, Salt Lake City had 81 per cent; Grand Junction, Colo., 77 per cent; and Pocatello, Idaho, 87 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 64 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 30 per cent, the lowest observed reading being 9 per cent on the 9th; at Modena, 26 per cent, the lowest observed reading being 4 per cent on 29th; at Grand Junction, Colo., 37 per cent, the lowest observed reading being 7 per cent on the 29th; at Pocatello, Idaho, 42 per cent, the lowest observed reading being 19 per cent on the 19th.

There was an average of only 3 days with .01 inch or more precipitation; 2 over the northern, 3 over the middle, and 4 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halos, solar.—Modena, 25.

Earthquake.—Ogden, 23; Salt Lake City, 23.

Hail.—Huntsville, 6; Meadowville, 16; Scipio, 24.

Frost, light.—Coyoto, 31; Garrison, 3, 7; Heber, 3, 5; Pinto, 4; Scipio, 3.

Frost, heavy.—Henefer, 4; Huntsville, 4; Meadowville, 4, 7, 8; Plateau, 4.

High winds.—Aneth, 16; Black Rock, 5, 6, 13; Emery, 6; Farmington, 6; Frisco, 5, 6; Garrison, 5, 6; Giles, 1, 2; Government Creek, 5, 6, 20; Grover, 6; Heber, 1, 5, 6, 14; Henefer, 2, 5, 6, 8, 9, 12, 13, 25; Levan, 5, 6; Lund, 1, 2, 5, 6, 8, 9, 13, 19, 20, 30; Meadowville, 5, 6, 12, 30; Modena, 6; Monticello, 5, 8; Morgan, 6; Ogden, 6; Pinto, 5, 7; St. George, 6, 20, 22; Salt Lake City, 1, 2, 5, 6, 16, 30; Scipio, 1, 5, 6; Tropic, 19; Vernal, 5.

Thunderstorms.—Aneth, 15; Black Rock, 16, 17, 20, 21, 23; Coyoto, 21; Farmington, 12, 15, 25; Fort Duchesne, 16, 23; Frisco, 16, 17; Giles, 6, 17, 21, 26; Government Creek, 23, 25; Green River, 6, 13, 16, 21; Grover, 6, 17, 23, 26; Heber, 12, 15, 16, 22, 23, 25; Henefer, 16, 22, 23, 25; Huntsville, 6, 12, 16, 22; Levan, 12, 16, 17, 20, 25; Lund, 22; Meadowville, 16, 22, 23; Moab, 6, 15–18, 20, 21, 23–26; Modena, 17, 21–23; Monticello, 2, 7; Morgan, 13, 15; Mount Nebo, 16; Ogden, 22–24; Parowan, 16, 17, 21–23; Ranch, 6; St. George, 21; Salt Lake City, 12, 16, 22; Tooele, 16; Tropic, 6, 11, 16, 21; Vernal, 12, 17, 22, 25.

OBSERVERS' REMARKS.

Alpine.—The month was very warm and windy; grain is shrinking rapidly; irrigation water is low; fruit is scarce.—Thos. B. Whitby.

Black Rock.—A steady south wind blew during almost the entire month; precipitation was slightly insufficient.—Willard Burbank.

Emery.—Crops are in excellent condition; a great deal of alfalfa was ruined in the field by rain.—H. C. Wickman.

Government Creek.—The month was hot and dry, and all crops are drying up rapidly.—Walter James.

Green River.—All crops are making splendid progress; there is sufficient irrigation water to mature crops.—John T. Farrer, Jr.

Henefer.—The month was dry and warm, except on the night of the 4th, when light frost formed; rainfall was deficient.—William Brewer.

Huntsville.—The fore part of the month was cold, but the latter part was warm and pleasant; as a whole the weather during the month was very favorable for haying.—Lars Petersen.

Marysvale.—Crops are suffering on account of the drouth; irrigation water is very low; the hay crop is above average.—Geo. T. Henry.

Meadowville.—July was a month of very fine weather; the precipitation was very invigorating on all crops and especially on the range; the first crop of lucerne is in stack and the tonnage is above the average.—J. S. Moffatt.

Mount Nebo.—Oats, wheat and barley are above the average; fruit is scarce; the month was very dry.—Mrs. Frank Roberts.

Pinto.—The month was very dry; the range is drying rapidly; good crops of native hay and lucerne are in stack.—J. H. Harrison.

Ranch.—The month was very dry; dry land grain is almost a failure; irrigated grain is very good; all hay is doing well; irrigation water will be insufficient.—J. W. Seaman.

Tropic.—Copious rains fell during the month on the surrounding ranges, and the ranges are reported as being in fine condition.—Edw. P. Bolton.

CROP CONDITIONS.

The generally warm and dry weather during the month exercised a beneficial effect on watered crops and favored their growth. The severe frosts of the fore part of the month had badly damaged tender vegetation, especially potatoes and tomatoes, over extensive areas throughout the section, but had no unfavorable effects on the hardier crops. The long continued drought had, however, produced a serious shortage in the supply of irrigation water, and reservoirs and ditches had fallen so low in many localities that the work of irrigation was seriously hampered, and in many instances entirely stopped, resulting in such cases in a serious deterioration of the crops. Grasshoppers were present in considerable numbers in Millard county and were doing much damage to growing vegetation. The harvesting of fall wheat, rye and barley became general throughout the section early in the month and continued under rapid headway, the weather being particularly favorable for the work. The yield of fall wheat will fall far short of the average, while rye and barley, it is believed, will be up to the yield of former years. On dry farms the quality has been seriously impaired owing to the shrinkage of the berry by the prolonged drought and hot winds. Spring wheat and oats were heading very fast and cutting was a

matter of the near future. Both of these crops were in good condition and prospects for good yields of both quality and quantity, were very favorable. The first crop of alfalfa had been gathered during the month, with generally average yields reported. A second crop had grown very rapidly and toward the close of the month began to bloom in many localities and cutting was in progress. The crop suffered considerable deterioration from the hot winds and dry weather and the yield will be below the average both in quality and quantity. The gathering of this staple had also been seriously delayed by the scattering of the harvested crop after being stacked, by the high winds that prevailed at different periods during the month. Sugar beets made good advancement and were in good condition where properly irrigated, but on dry farms and where the supply of water was insufficient, the quantity of the crop was badly impaired. Corn made a good growth, and by the close of the month the early planted was silking and tasseling, and roasting ears were on the market. Fruit, particularly apricots, plums, peaches and apples, were ripening and were being marketed. The quality and quantity of all these varieties, excepting apples, appear to be satisfactory; apples, however, are reported as being small, and of inferior quality. While potatoes and tomatoes were making a good growth, yet they did not appear to be thriving as well as could be wished. The ranges throughout the section were in poor condition and burning up from the combined effects of dry weather and hot sunshine.

GREAT SALT LAKE.

The stage of the water on July 1st was 1.6 feet below zero; on July 15th, 1.9 feet below zero, and on August 1st the reading was 2.1 feet below zero. All these readings were taken from the new gage installed at Saltair Beach some time ago.

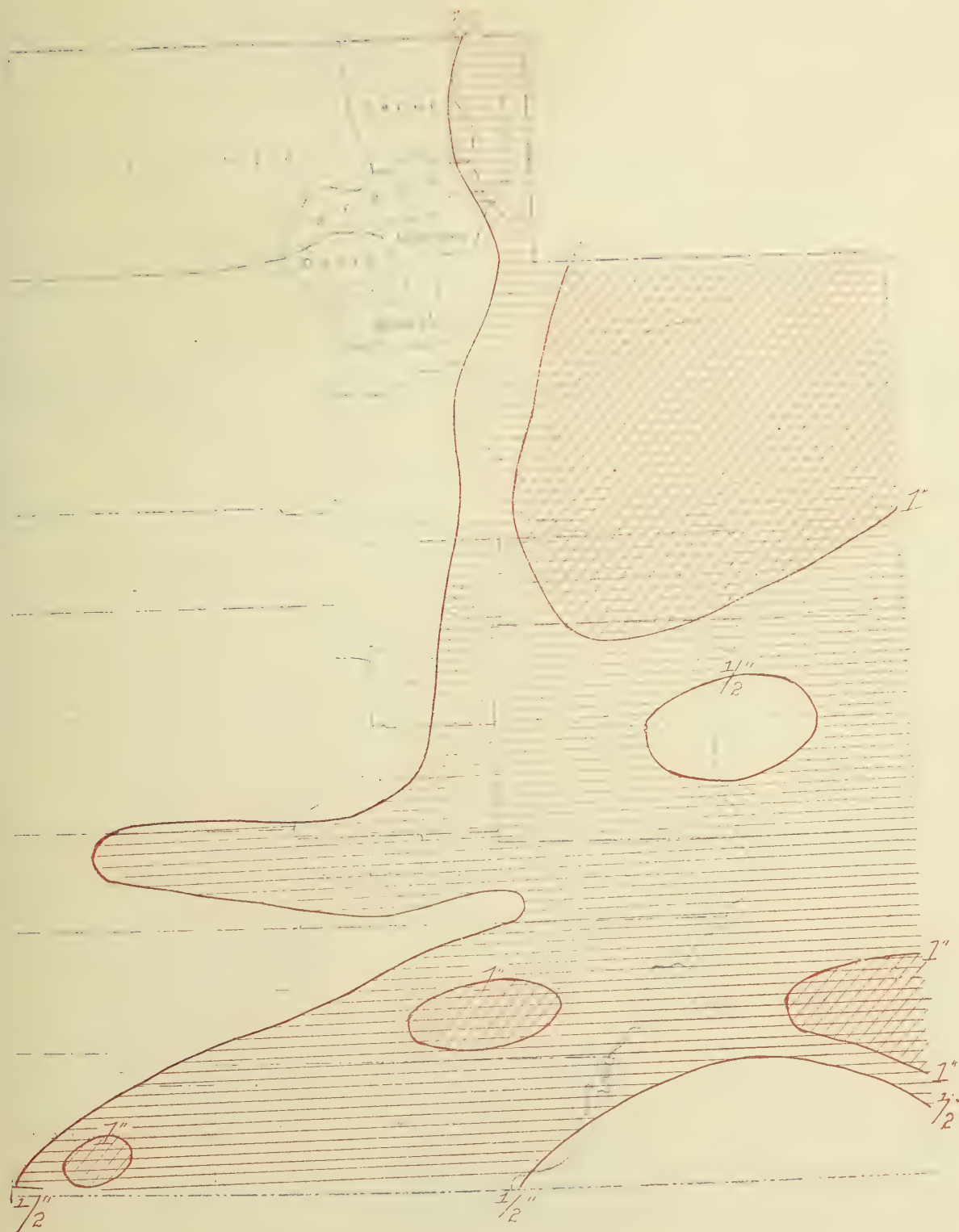
Comparative Temperature and Precipitation Data for July during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	72.8	110	27	0.28
1893	70.8	110	24	0.79
1894	70.4	109	26	0.71
1895	70.0	110	33	0.57
1896	72.0	111	33	1.81
1897	68.7	110	23	0.55
1898	73.4	115	28	0.35
1899	73.3	107	30	0.66
1900	72.6	111	30	0.09
1901	75.5	115	27	0.41
1902	68.4	112	17	0.32
1903	71.0	110	27	0.52

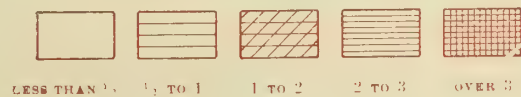
CLIMATOLOGICAL DATA FOR UTAH, JULY, 1903.																			
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total shown as unmet.	Days with at least one inch of rain.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.
NORTHERN.																			
Alpine.	Utah.	4,900	7								0.08	-0.52	0.68	0.0					T. B. Whitby.
Blue Creek.	Box Elder.	4,387	25	75.0	-5.1	100	1	46	2	50	0.30	+0.08	0.30	0.0	1	8	1	8	Agent So. Pacific Co.
Cornine.	Box Elder.	4,210	33	72.0	-7.0	99	12	40	1	19	0.08	-0.39	0.08	0.0	1	27	3	1	W. E. Johnson.
Evansville, Wyo.	Uinta.	9,959	7	50.4	-2.6	87	12	30	1	17	1.10	+0.45	0.81	0.5	5	41	2	5	Frank Tucker.
Farmington.	Davis.	1,207	3	70.9	-3.1	98	*13	11	*3	48	T.	-0.32	T.	0.0	0	7	1	0	Charles Royce.
Fort Duchesne.	Uintah.	5,000	15	68.5	-2.7	97	15	35	1	53	1.10	+1.02	0.05	0.0	4	27	6	4	Post Surgeon.
Heber.	Wasatch.	5,606	10	64.0	-2.1	92	12	32	3	50	0.69	-0.19	0.28	0.0	5	23	2	1	John Crook.
Henefer.	Summit.	5,301	4	64.6	+0.8	92	12	30	3	50	0.40	+0.14	0.40	0.0	1	23	2	1	William Brewer.
Huntsville.	Weber.	5,100	2								0.22	-0.15	0.19	0.0	2	18	11	2	Lars Petersen.
Kelton.	Box Elder.	4,230	25	72.1	-5.0	97	*13	35	*7	47	0.00	-0.33	0.00	0.0	0	29	0	2	Agent So. Pacific Co.
Logan.	Cache.	1,557	12	68.6	-2.4	91	13	43	*2	30	0.35	-0.05	0.32	0.0	2				James Dryden.
Meadowville.	Rich.	6,200	4	62.8	-2.8	90	12	35	*7	15	0.75	+0.18	0.30	0.0	4	21	7	0	J. S. Moffat.
Milville.	Cache.	4,848	8								0.45	+0.03	0.25	0.0	2				Fred. Yeates.
Morgan.	Morgan.			64.3		92	12	32	4	50	0.18	-0.14	0.14	0.0	4	21	8	2	T. R. G. Welch.
Oakley, Idaho.	Cassia.	4,191	10	66.1	-5.1	96	20	31	7	16	T.	-0.40	T.	0.0	0	23	0	2	John Adams.
Ogden No. 1.	Weber.	4,310	2	74.6		95	12	39	7	30	0.07	-0.07	0.07	0.0	1	23	8	0	Enoch Farr.
Ogden No. 11.	Weber.	4,310	33	78.5	-0.9	100	12			3	0.00	-0.25	0.00	0.0	0	24	0	7	W. H. Chevers.
Park City.	Summit.	6,846	6	67.8	+3.3	97	1	31	3	48									M. H. White.
Pocatello, Idaho.	Bannock.	4,488	3	68.0	-2.3	93	12	10	8	42	0.11	-0.04	0.29	0.0	5	17	14	0	Weather Bureau.
Promontory.	Box Elder.	4,913	32	75.2	-2.2	97	14	60	*2	29	0.00	-0.20	0.00	0.0	0	31	0	0	Agent So. Pacific Co.
Saltair Beach T&P S.	Salt Lake.			73.6		90	20	51	29	33	T.		T.	0.0					Francis W. Bailey.
Salt Lake City.	Salt Lake.	4,306	29	73.6	-1.7	96	13	16	3	33	0.14	-0.39	0.14	0.0	1	18	10	3	Section Center.
Snowville.	Box Elder.	4,300	13	67.2	-2.1	91	15	30	8	51	0.00	-0.41	0.00	0.0	0	15	16	0	Joseph Robbins.
Terrace.	Box Elder.	4,550	33	70.6	-10.1	98	26	39	7	52	T.	-0.11	T.	0.0	0	14	9	17	A. W. Davis.
Tooele.	Tooele.	4,000	7	73.9	+0.3	97	12	45	7	40	0.05	-0.15	0.05	0.0	1	28	3	0	I. J. Elkington.
Vernal.	Uintah.	5,950	8	70.0	-1.0	96	14	36	4	44	1.83	+1.10	0.88	0.0	0	10	10	2	Richard Veltman.
Weston, Idaho.	Oncida.	4,460	5	66.8	-1.5	98	12	32	8	57	0.10	-0.33	0.10	0.0	1	21	5	5	William Chatterton.
Woodruff.	Rich.	6,500	6	63.4	+3.0	91	12	27	4	60	0.78	+0.47	0.60	0.0	2	17	7	7	T. J. Tingey.
Averages.				70.1	-3.9						0.34	-0.11			2	23	5	3	
MIDDLE.																			
Black Rock.	Millard.	5,802	3	67.6	-2.7	92	*27	31	4	18	0.41	+0.13	0.27	0.0	3	22	3	6	Willard Burbank.
Cullao.	Juab.		1	73.8		95	27	39	4	47	0.05	-0.05	0.05	0.0	1	21	8	2	E. E. Edwards.
Castle Dale.	Emery.	5,500	4	68.8	-0.6	104	15	33	4	50	0.74	+0.14	0.25	0.0	6	17	14	0	James Jeffs.
Cisco.	Grand.	4,385	11																H. T. Matthews.
Deseret.	Millard.	4,541	9	62.8	-3.6	85	12	31	4	39	0.72	+0.72	0.51	0.0	2	5	16	10	S. W. Western.
Emery.	Emery.	6,260	3	73.6	-1.3	102	12	38	3	48	0.27	-0.31	0.27	0.0	1				H. C. Wickman.
Fillmore.	Millard.	5,100	13	73.7		90	28	33	3	49	0.05	-0.05	0.05	0.0	1	24	5	1	J. J. Starley.
Garrison-T.	Millard.			73.7		90	28	33	3	49	0.05	-0.05	0.05	0.0	1	24	5	1	E. M. Smith.
Gov't Creek.	Tooele.	5,277	3	72.4	-1.2	95	13	38	3	49	0.09	-0.34	0.07	0.0	2	26	5	0	Walter James.
Grand Junc., Colo.	Mesa.	4,666	12	76.8	-1.0	98	12	48	3	36	0.67	+0.12	0.34	0.0	6	11	19	1	Weather Bureau.
Green River.	Emery.	4,080	6	79.2	-0.2	107	12	43	6	62	0.37	+0.36	0.18	0.0	3	14	7	10	J. T. Farrer, Jr.
Idapah.	Tooele.			64.0		95	12	28	8	56	0.30	-0.30	0.30	0.0	1	25	0	6	Owen Sheridan.
Levan.	Juab.	5,010	13	68.8	-3.1	91	12	37	4	40	0.47	-0.11	0.24	0.0	3	21	8	2	William Brown.
Manti-T.	San Pete.	5,575	9	72.6	+1.3	93	14	34	4	45	0.53	-0.01	0.33	0.0	2		20	2	W. M. Harmon.
Mount Nebo.	Utah.	4,650	2	75.6		98	*12	38	5	52	0.14	-0.12	0.12	0.0	2	18	8	5	Mrs. Frank Roberts.
Mount Pleasant.	San Pete.	5,859	11	69.5	-3.1	95	12	36	3	43	0.56	-0.14	0.19	0.0	7	17	14	0	Web Greene.
Provo-T.	Utah.	1,532	11	69.6	-4.1	97	12	37	4	53	0.39	+0.21	0.16	0.0	3	14	17	0	Caleb Tanner.
Richfield.	Sevier.	5,323	13	67.0	-4.4	93	12	34	3	53	0.31	-0.04	0.25	0.0	4	20	9	2	J. M. Lauritzen.
Scipio.	Millard.	5,260	8	71.8	+1.4	100	29	32	3	50	0.27	-0.43	0.07	0.0	5	18	6	7	Thomas Memmott.
Soldier Summit.	Utah.	7,474	11	71.8	+14.1	84	*23	61	16	10	2.00	+1.50	2.00	0.0	1	26	3	2	Ag't Rio Grande R. R.
Thistle.	Utah.	5,075	11	75.1	+4.9	103	12	41	2	48	0.53	-0.19	0.53	0.0	1	26	0	5	E. T. Olson.
Wellington-T.	Carbon.	5,540	4	70.8	+2.4	99	27	34	3	53	1.05	+0.93	0.66	0.0	3	6	14	5	E. E. Branch.
Averages.				71.1	+0.4						0.49	+0.15			3	19	8	4	
SOUTHERN.																			
Aneth-T.	San Juan.	4,800	3	77.1	-2.6	100	12	46	4	47	0.38	-0.03	0.21	0.0	3	26	5	0	H. R. Antes.
Coyote T.S.	Garfield.		2	69.9	+6.1	87	*11	37	29	50	0.47	-0.16	0.22	0.0	4	16	0	6	H. J. McCullough.
Escalante.	Garfield.	5,700	3	69.5		94	*12	42	28	40	1.87	-0.70	0.70	0.0	6	10	16	11	W. G. Bleak.
Frisco-T.	Beaver.	7,318	9	76.0	+2.1	96	*1	43	3	38	0.72	-0.19	0.68	0.0	2	21	6	4	S. N. Slaughter.
Giles.	Wayne.	4,000	8	75.2	-3.5	101	29	39	4	41	0.85	+0.50	0.43	0.0	4				J. C. White.
Grover (near).	Wayne.	5,800	7	68.8	+1.6	93	12	35	4	41	0.88	-0.32	0.30	0.0	5	17	4	10	Henry Cullum.
Hite.	Garfield.	3,000	4	82.2	-3.7	100	12	54	5	43	0.63	+0.60	0.31	0.0	4	15	14	2	F. W. Gibbons.
Kanab.	Kane.	4,925	3	72.2		100	30	49	7	49	0.89	-0.04	0.43	0.0	4	23	3	5	Z. K. Judd.
La Sal.	San Juan.	7,000	3	70.5	+0.7	89	12	37	3	33	0.72	+0.28	0.18	0.0	8	10	20	1	Mrs. G. W. Carpenter.
Loa-T.	Wayne.	7,000	11	74.1	+8.8	110	20	31	4	64	0.95	-0.05	0.65	0.0	2				Michael Hansen.
Lund.	Iron.	5,092	3	73.3		98	*28	39	4	53	T.		T.	0.0	0	25	4	2	B. R. Transeau.
Marysville (near).	Piute.	6,180	4	66.6	-1.4	92	12	33	1	48	0.64	-0.20	0.16	0.0	7	14	6	11	G. T. Henry.
Minersville.	Beaver.	5,070	6																R. W. Doison.
Moab.	Grand.	4,800	14	76.0	-1.7	99	1	44	4	48	0.84	+1.32	0.29	0.0	6	8	18	5	Henry Crouse.
Modena.	Iron.	5,379	3	68.8		93	*28	39	4	44	0.14	-0.09	0.09	0.0	3	23	6	2	Weather Bureau.
Monticello.	San Juan.	7,280	1	72.0		91	*11	41	5	39	1.14	-0.75	0.75	0.0	3	10	13	8	John Bailey.
Parowan.	Iron.	5,970	12	73.6	+2.5	93	*28	37	3	46	0.41	-0.46	0.30	0.0	4	19	9	3	James Connell.
Pinto-T.	Washington.	5,970	6	64.4	-3.1	87	*12	31	4	47	T.	-0.33	T.	0.0	0	23	4	4	J. H. Harrison.
Plateau.	Sevier.	7,000	1	68.6		89	12	29	4	50	0.95	-0.34	0.09	0.0	6	19	12	0	W. H. Schock.
Ranch.	Kane.	6,700	2	60.4		87	14	32	5	50	0.88	-0.44	0.44	0.0	3	17	4	19	J. W. Seaman.
St. George.	Washington.	2,880	17	77.6	-4.8	108	14	48	18	48	1.50	+0.99	1.48	0.0	2	28	2	1	C. G. Bleak.
Tropic.	Garfield.	7,000	6	68.2	+1.2	89	*28	39	5										

* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m., and 9 p. m. readings.
Figures following name of station indicate the number of days missing from the record, and when accompanied by letters indicate division of tables to which figures apply, e. g., T4—four days missing from temperature record.
All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations as have normals based upon ten or more years record. ‡ Thermometers not supplied by U. S. Weather Bureau.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, JULY, 1903.

Sections and stations.	Day of month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine																.08			T.								T.					0.08	
Blue Creek																						.30										0.30	
Corinne																						.08										0.08	
Evanston, Wyo.			.08													.28	.53						.02				.19					1.10	
Farmington																T.										T.						T.	
Ft. Duchesne																.95	.03					.11	.40									1.49	
Heber						.10						T.				.08	.28					.05	T.				T.					0.69	
Henefer							T.						T.			.40						T.	T.				T.					0.40	
Huntsville					.19							T.				T.						.03	T.									0.22	
Kelton																																0.00	
Logan																						T.	.32	.03							T.	0.35	
Meadowville			T.				T.									.20						.15	.30	.10								0.75	
Millville							T.									T.						T.	.25	T.						.20		0.45	
Morgan						.02										.14							.01			T.	.01						0.18
Oakley, Idaho																		T.														T.	
Ogden No. I.																	T.							.07								0.07	
Ogden No. II.																																0.00	
Park City																																	
Pocatello, Idaho			.02													.09	T.					.01	.17	.12							T.	T.	0.41
Promontory																																0.00	
Saltair Beach																								T.								T.	
Salt Lake City							T.	T.								.14						T.		T.			T.						0.14
Snowville																																0.00	
Terrace																						T.										T.	
Tooele																	.05															0.05	
Vernal		T.	T.	T.			T.	.03			T.			T.		T.	.75	.88				.12	.03	T.	T.	T.	.02					1.83	
Weston, Idaho																							.10									0.10	
Woodruff			T.													.18	.60					T.		T.		T.						0.78	
MIDDLE.																																	
Black Rock		T.														T.	.11	.03				T.	.27		T.							0.41	
Callao																	.05															0.05	
Castle Dale						.05										.15	T.						.25	.10	.11	.08							0.74
Cisco																																	
Deseret																																	
Emery						T.											T.		T.				.52	.20	T.								0.72
Fillmore																	T.		T.						T.			.27					0.27
Garrison																	T.		T.				T.									0.05	
Government Creek																	.07								T.							0.09	
Grand Junction, Colo.						T.	T.			T.				T.	T.	.05	.34	.01	T.			.12	T.	T.	.09	T.	.06	T.				0.67	
Green River						T.											.12					.07										0.37	
Idapah																						.30										0.30	
Levan																	.08	.15					T.	T.		.24						0.47	
Manti																		T.						.20								0.53	
Mount Nebo															T.	T.	.12	.02	T.				T.			.33						0.14	
Mount Pleasant						.02										.05		.06				.03			.19	.10	.11						0.56
Provo																.16	T.					.07				.16						0.39	
Richfield																.03	.25					.01	T.	.02								0.31	
Scipio		T.				T.							T.	T.		.07	.02					.02		.06		.10	T.					0.27	
Soldier Summit																.07	.02															2.00	
Thistle																	.53															0.53	
Wellington																	.27						.66	.12								1.05	
SOUTHERN.																																	
Aneth																.15	.21							.02								0.38	
Coyote																	.22					.22		.01		.20						0.47	
Escalante					.10											.25	.70	T.				.10		.28		.44						1.87	
Frisco																.04	.68					T.										0.72	
Giles					.09													.13					.20				.43						0.85
Grover (near)				.02														.30					T.	.06	.30		.20						0.88
Hite				.23												T.	.31	T.				T.			.03	.06							0.63
Kanab				.40												.43						.03				.03							0.89
La Sal				.04										.08		.10	.12	.10				.18		.06	.04							0.72	
Loa																								.65	.30							0.95	
Lund																	T.	T.														T.	
Marysvale (near)					.16												T.	.13	.09	.01			T.	.09	.10	.06	T.						0.64
Minersville																																	
Moab			T.								T.	T.					T.	.04	.29	T.			T.	.08		.01	.21						0.84
Modena							T.										T.					.02	.07	T.	.05							0.14	
Monticello																	.45	.75					.24									1.44	
Parowan																	T.	.03	.02					.06	T.	.30						T.	
Pinto																																	T.
Plateau					.09	T.										T.	.01	.34	.16						.17	.18	T.	T.					0.95
Ranch					.33												T.	T.						.44	.11	T.							0.88
St. George														.02			T.								1.48								1.50
Tropic						T.						T.				.23	.10					.09	T.										

261.
UN.
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

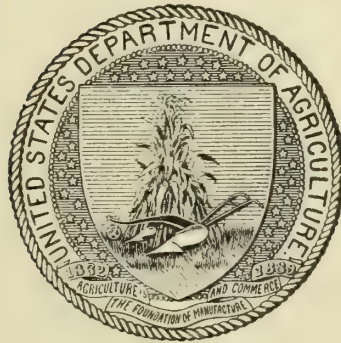
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

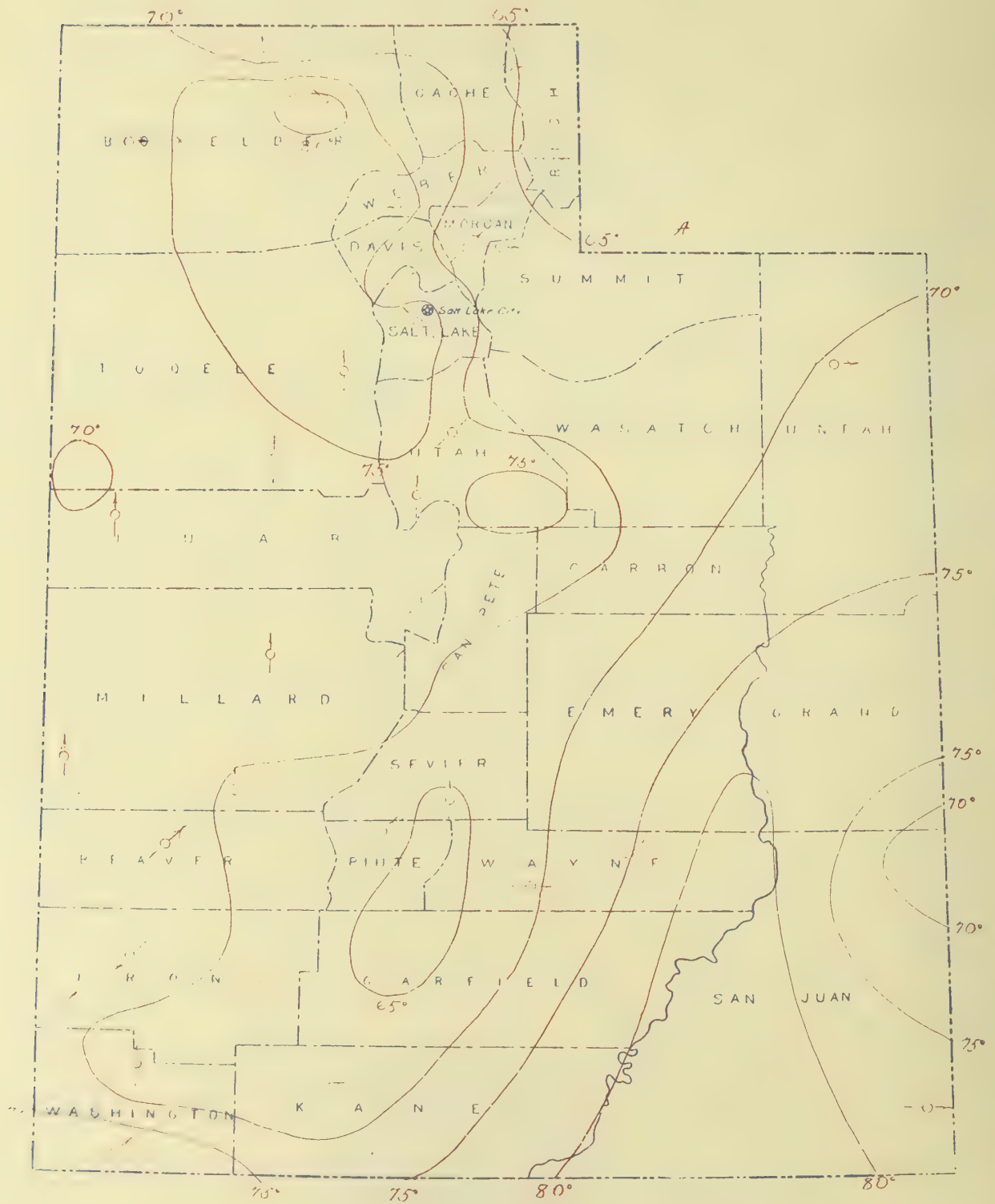
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

No. 10.

WEATHER.

During the fore part of the month clear skies with an almost entire absence of precipitation prevailed. Cloudy and at times threatening weather prevailed during the latter part, with frequent thunderstorms. Though the precipitation accompanying these storms was generally light and insufficient, yet many localities, particularly throughout the southern portion of the section, derived great benefit from these storms. Temperatures during the month were abnormally high except on the 26th, 27th and 28th, when unseasonably cool weather prevailed. During this period considerable frost occurred throughout the more elevated regions of the section, but the injury to growing vegetation was inappreciable. High winds were frequent, especially throughout the northern counties, but no damage of any moment resulted. A shortage of irrigation water existed throughout the entire month, the light scattered precipitation having been insufficient to materially replenish the supply. The reservoirs and ditches were as a consequence very low, thus hampering the work of irrigation and in many localities necessitating a complete abandonment of the work.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 58 stations, was 71.8° , or 1.4° above the normal. The highest local monthly mean was 84.8° at Hite; the lowest was 62.2° at Woodruff and at Coyoto. The highest temperature recorded was 110° at St. George on the 6th; the lowest was 27° at Woodruff on the 28th; giving an absolute range for the section of 83° . The greatest daily range for any station was 60° at St. George on the 1st. The highest temperatures of the month were generally recorded on the 17th, 18th and 19th; and the lowest on the 27th and 28th.

PRECIPITATION.

The average precipitation, determined from the reports of 60 stations, was 0.38 inch, or 0.41 inch below the normal. A decided deficiency occurred over all portions of the section, although this was particularly the case over the northern portion, where many stations had either no rainfall whatever, or merely a trace. Precipitation was entirely in the form of local showers, widely scattered and generally light in character. The greatest monthly amount was 2.70 inches at Lund. No precipitation whatever

occurred at Blue Creek, Kelton, Ogden No. 2, Promontory and Woodruff, all situated in the northern portion of the section. The greatest rainfall in any 24 consecutive hours was 1.49 inches at Black Rock on the 13th. No snowfall is reported from any portion of the section.

WIND AND WEATHER.

The prevailing direction of the wind was south. The total number of miles recorded at Salt Lake City was 4,614; at Modena, 9,034; at Grand Junction, Colo., 4,060; and at Pocatello, Idaho, 6,086. The maximum velocity at Salt Lake City was 35 miles from the south on the 25th; at Modena, 44 miles from the southwest on the 25th; at Grand Junction, Colo., 30 miles from the southeast on the 25th; and at Pocatello, Idaho, 34 miles from the southwest on the 25th.

The average number of clear days during the month was 20; partly cloudy days, 9; cloudy days, 2. Determined from the automatic sunshine record, Salt Lake City had 83 per cent; Modena, 87 per cent; Grand Junction, Colo., 84 per cent; and Pocatello, Idaho, 93 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 70 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 28 per cent, the lowest observed reading being 8 per cent on the 8th; at Modena, 36 per cent, the lowest observed reading being 7 per cent on the 3rd; at Grand Junction, Colo., 32 per cent, the lowest observed reading being 7 per cent on the 4th; at Pocatello, Idaho, 37 per cent, the lowest observed reading being 16 per cent on the 18th.

There was an average of only 2 days with .01 inch or more precipitation; 1 over the northern, 2 over the middle, and 4 over the southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence.)

Heavy frost.—Heber, 27, 28; Henefer, 27; Meadowville, 28. Light frost.—Coyoto, 29; Huntsville, 27, 28; Mt. Pleasant, 26, 27; Plateau, 28, 29; Scipio, 27.

Hail.—Black Rock, 13; Ft. Duchesne, 24, 26; Grover, 16; Lund, 9, 10, 12; Marysville, 10; Modena, 8-10, 13; Pinto, 7.

High winds.—Deseret, 2-5, 12-15, 24, 25; Garrison, 25; Government Creek, 2, 13; Heber, 13, 25; Lund, 24; Meadowville, 2, 8, 19, 25; Moab, 26; Modena, 25; Pinto, 25; St. George, 26; Salt Lake City, 2, 14, 19, 20, 25, 26.

Thunderstorms.—Black Rock, 10, 13, 20, 21; Callao, 12, 13; Coyoto, 12; Farmington, 14, 19, 20, 22; Frisco, 11, 12, 20, 21; Garrison, 12, 19; Giles, 13-15, 20, 29; Government Creek, 14, 19-21; Grover, 16; Henefer, 10, 14, 19-21; Huntsville, 14, 21; Levan, 10, 19-21; Lund, 9-12; Marysville, 9-15, 19; Meadowville, 14, 20; Moab, 25; Modena, 7-13, 17-20; Monticello, 29; Morgan, 14, 20-22; Mt. Nebo, 10, 12, 14, 19-22; Ogden, 20, 21; Parowan, 9-11, 18-20; Pinto, 7; St. George, 10, 11; Salt Lake City, 10, 14, 19-22; Scipio, 10-14; Snowville, 14, 20, 21; Tropic, 6, 9-11, 13, 15, 17, 19, 20; Vernal, 20, 22-24, 26.

OBSERVERS' REMARKS.

Black Rock.—Two very beneficial crop rains fell during the month; high winds were frequent also.—Willard Burbank.

Deseret.—The frequent high winds during the month were very detrimental to lucerne that was left for seed and on other

crops; water is becoming scarce and trees are showing the effects of the dry weather.—S. W. Western.

Government Creek.—The month was very warm and dry; all vegetation is considerably dried up; range feed is in poor condition.—Walter James.

Henefer.—The month was too dry to be favorable in all respects for crops.—William Brewer.

Huntsville.—The month was very favorable on all crops, and was especially favorable for haying; hay is the staple in this valley and it was secured in good condition.—Lars Petersen.

Marysville.—All vegetation is suffering for water; irrigation water is very low.—Geo. T. Henry.

Meadowville.—A heavy frost on the 28th did a great deal of damage in gardens, but did not injure grain; the second crop of lucerne is being gathered and a yield above the average is being obtained.—J. S. Moffatt.

Pinto.—The month was very warm; grain ripened rapidly; rain in the fore part of the month revived green crops considerably; harvesting is in progress.—J. H. Harrison.

Ranch.—August was a very good month on crops; dry land grain matured nicely, much better than was anticipated; all crops grew rapidly during the month and generally the yields will be above the average; irrigation water is plentiful.—J. W. Seaman.

Tropic.—The weather during the month was very favorable for the maturing of crops; irrigation water will be sufficient for the needs of crops that are still green.—Edw. P. Bolton.

CROP CONDITIONS.

The harvesting of fall grain continued under rapid headway during the month and by the close was practically complete, and thrashing was in rapid progress. The yield of fall wheat will fall short of the average both in quantity and quality, especially on dry farms where because of the lack of necessary moisture the berry was somewhat shrunken. Spring wheat and oats were being cut with fair average yields mostly reported, though some few correspondents report the results of the harvests as being below earlier expectations. This, however, applies more particularly to dry land grain, which as was the case with fall wheat suffered severely for lack of water. The second crop of alfalfa had been all gathered and in many localities third crops were either being cut or were making rapid growth. Reports regarding the yield of the second crop were conflicting, but in general the harvests throughout the southern portion of the section appear to have been about average, while in the northern portion light yields were mostly reported. Corn made a rapid growth during the month, and was silking and tasseling. Cut worms were reported as causing injury in some few localities. Beets on irrigated soil were in satisfactory condition and making a good growth, but on dry farms the crop suffered considerable deterioration owing to the lack of sufficient moisture. Potatoes and tomatoes were being gathered and marketed with good average yields mostly reported. Fruit continued to ripen during the month and the returns were generally satisfactory. Ranges were generally in very poor condition and badly burned owing to the combined effects of the hot sunshine and dry winds, and as a result stock was not thriving as well as could be wished.

GREAT SALT LAKE.

The stage of the water on August 1, August 15, and September 1, was 2.1 feet, 2.2 feet, and 2.6 feet below zero, respectively.

Comparative Temperature and Precipitation Data for August during the past twelve years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	70.6	113	23	0.27
1893	68.1	112	25	0.23
1894	69.5	107	25	0.81
1895	70.6	110	29	0.35
1896	69.7	107	33	1.04
1897	69.4	111	35	0.40
1898	73.5	110	35	0.60
1899	65.7	102	24	0.96
1900	68.5	109	26	0.34
1901	72.3	111	31	1.63
1902	69.4	110	23	0.51
1903	71.8	110	27	0.38

PERSONAL AND GENERAL.

A new voluntary station has been established at Saltair Beach, Mr. Francis W. Bailey in charge. This point is situated on the shores of the Great Salt Lake, and possesses great prominence as a summer resort.

Professor J. H. Hance, our voluntary observer at Park City, paid a very pleasant visit to this office on the 22nd. Professor Hance has been enjoying a well-earned vacation at his home in Chicago, preparatory to resuming his responsible duties as head of the Park City High School. The professor is an enthusiast on scientific subjects and takes great interest in the work of the Weather Bureau.

The Director was also pleased to receive a call from Mr. E. E. Edwards, our voluntary observer at Callao. Mr. Edwards was formerly a resident of Salt Lake City, but some time ago removed to Callao, where he has since become one of the most prosperous farmers of that locality.

The Director regrets to learn of the forthcoming absence from La Sal for an indefinite period of Mrs. G. W. Carpenter, our voluntary observer at that point. It is hoped that Mrs. Carpenter will be able to find a satisfactory substitute during her absence. The records at La Sal have been so well and regularly kept that it would be unfortunate indeed if the records were to be broken, even for a short period.

Mr. George McCune, manager for McCune, Read & Co. of Juab, writes the Director that he is well pleased with the frost warning service of the Weather Bureau, and that his firm has been saved the loss of a considerable amount, due to the timely warning of approaching frosts. The director is glad to learn of this and hopes that others interested may avail themselves of this important branch of the work of the Bureau.

ERRATA.

June, 1903, report, page 5, Mt. Nebo, mean temperature recorded 64.6, should be 66.8. Page 6, Mt. Nebo, mean maximum recorded 81.7, should be 84.5; mean minimum recorded 47.6, should be 49.2.

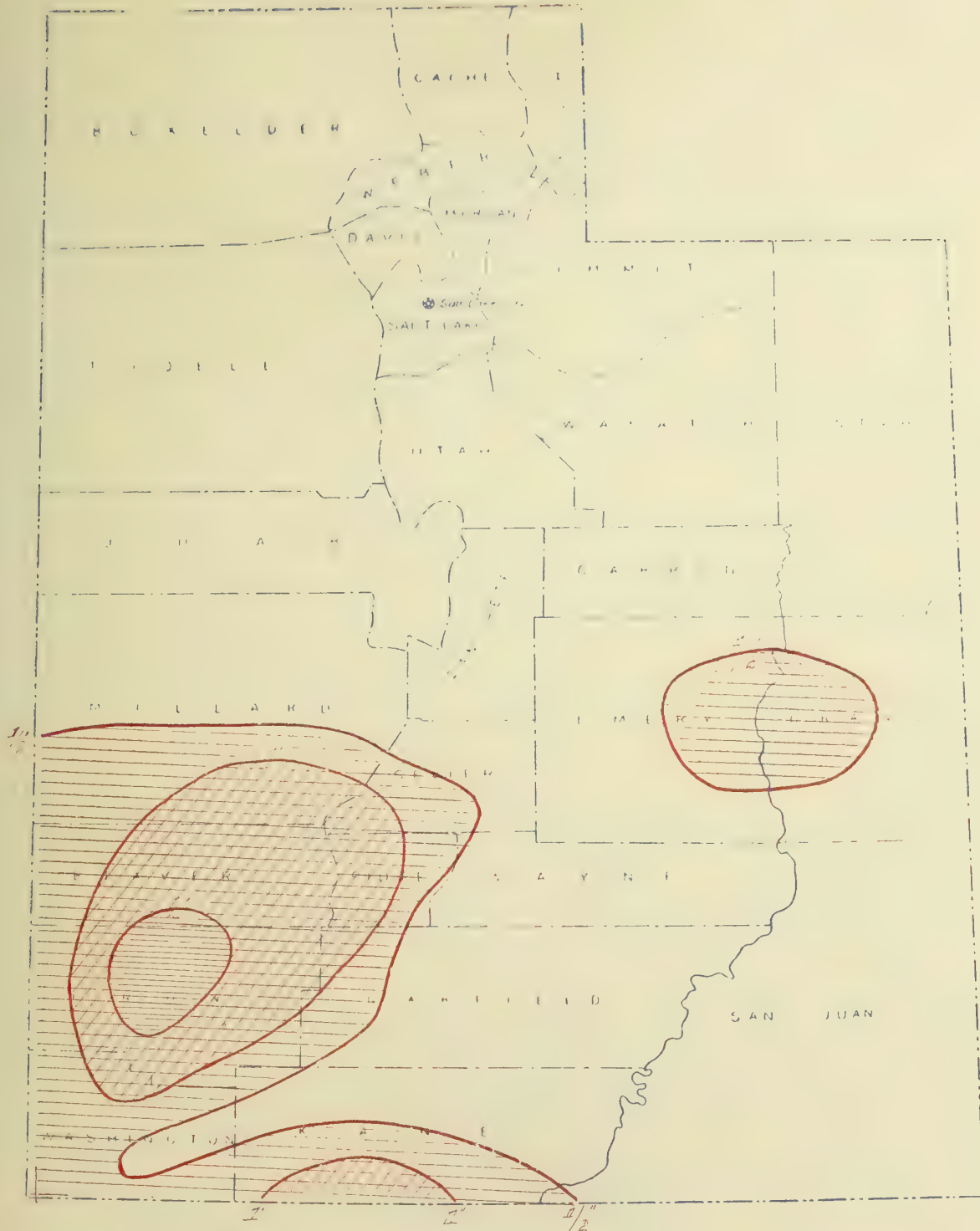
LATE JULY REPORT.

Deseret: Mean temperature, 69.0; highest, 96 on 14th; lowest, 33 on 4th; greatest daily range, 55; total precipitation, trace; greatest in 24 hours, trace; number of rainy days, 0; clear, 18; partly cloudy, 9; cloudy, 4.

CLIMATOLOGICAL DATA FOR UTAH, AUGUST, 1903.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind.	Observations.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine.	Utah.	4,900	7	82.0	+3.8	103	20	55	26	36	0.00	-0.36	0.00	0	25	4	2	se.	T. B. Whitby.	
Blue Creek.	Box Elder.	4,387	25	82.0	+0.8	105	2	43	27	48	0.11	-0.34	0.11	1	27	3	1	.....	Agent So. Pacific Co.
Carmine.	Box Elder.	4,240	33	75.2	+0.1	90	19	28	27	49	0.05	-0.52	0.05	1	28	3	0	w.	W. E. Johnson.	
Evanston, Wyo.	Uinta.	6,959	3	71.2	-1.6	94	18	41	27	42	0.20	-0.17	0.20	1	21	10	0	ne.	Frank Tucker.	
Farmington.	Davis.	4,207	3	71.2	-1.6	94	18	41	27	42	0.20	-0.51	0.11	2	26	5	0	.....	Charles Boylin.
Ft. Duchesne.	Uinta.	5,000	15	69.0	-0.5	97	*7	39	27	51	0.20	-0.65	0.12	2	23	8	1	s.	Post Surgeon.	
Heber.	Wasatch.	5,600	10	66.4	+0.9	96	19	32	27	52	0.20	-0.79	0.05	3	23	7	0	w.	John Crook.	
Henefer.	Summit.	5,301	4	66.4	+3.5	95	19	29	27	57	0.13	-0.79	0.05	3	23	7	0	w.	William Brewer.	
Huntsville.	Weber.	5,100	8	75.8	+0.5	97	13	54	7	41	0.00	-0.18	0.00	0	26	5	0	ne.	Lars Petersen.	
Kelton.	Box Elder.	4,230	25	72.5	+2.0	90	19	44	28	36	0.12	-0.30	0.12	1	27	4	0	w.	Agent So. Pacific Co.	
Logan.	CACHE.	4,507	12	72.5	+2.0	90	19	44	28	36	0.12	-0.30	0.12	1	27	4	0	w.	James Dryden.	
Meadowville.	Rich.	6,200	4	65.0	+0.4	89	2	35	28	48	T.	-0.52	T.	0	30	1	0	w.	J. S. Moffat.	
Millville.	CACHE.	4,848	8	60.7	.....	94	*18	32	27	54	0.10	-0.58	0.06	2	23	7	0	sw.	Fred. Yeates.
Morgan.	Morgan.	4,191	10	74.9	.....	93	*17	48	*26	31	0.35	.....	0.35	1	27	4	0	sw.	John Adams.
Oakley, Idaho.	Cassia.	4,310	2	74.9	.....	93	*17	48	*26	31	0.35	.....	0.35	1	27	4	0	sw.	Enoch Farr.
Ogden No. 1.	Weber.	4,310	3	77.3	+0.6	99	19	50	27	.....	0.00	-0.47	0.00	0	28	0	3	e.	W. H. Chevers.
Ogden No. 11.	Weber.	4,310	3	77.3	+0.6	99	19	50	27	.....	0.00	-0.47	0.00	0	28	0	3	e.	M. H. White.
Park City.	Summit.	6,846	6	71.1	+1.5	96	18	46	24	41	0.59	+0.17	0.54	4	24	7	0	e.	Weather Bureau.	
Pocatello, Idaho.	Bannock.	4,488	3	71.1	+5.0	99	15	51	26	.....	0.00	-0.36	0.00	0	26	3	2	.....	Agent So. Pacific Co.
Promontory.	Box Elder.	4,913	33	72.5	.....	92	25	47	27	35	T.	.....	T.	0	20	11	0	s.	Francis W. Bailey.
Saltair Beach.	Salt Lake.	4,306	19	76.6	+1.9	98	19	48	27	33	0.43	-0.29	0.22	5	22	9	0	se.	Section Center.	
Salt Lake City.	Salt Lake.	4,306	19	76.6	+1.9	98	19	48	27	33	0.43	-0.29	0.22	5	22	9	0	se.	Section Center.	
Snowville.	Box Elder.	4,306	19	76.6	+1.9	98	19	48	27	33	0.43	-0.29	0.22	5	22	9	0	se.	Section Center.	
Terrace.	Box Elder.	4,550	33	73.3	-1.3	97	*17	35	28	52	0.02	-0.24	0.02	1	20	11	0	s.	Joseph Robbins.	
Tooele.	Box Elder.	4,900	7	77.1	+3.8	102	19	47	27	37	T.	-0.59	T.	0	29	2	0	s.	A. W. Davis.	
Vernal.	Uinta.	5,050	7	70.6	+0.8	96	*6	38	27	46	0.13	-0.48	0.04	4	20	11	0	w.	I. J. Elkington.	
Weston, Idaho.	Oneida.	4,400	5	68.0	+0.8	98	*17	35	28	54	0.14	-0.63	0.10	2	26	1	4	sw.	Richard Veltman.	
Woodruff.	Rich.	6,500	6	62.2	+2.2	97	23	27	28	57	0.00	-0.35	0.00	0	21	5	4	w.	William Chatterton.	
Averages.				72.0	+0.8						0.12	-0.36			1	24	5	2	w.	T. J. Tingley.
MIDDLE.																				
Black Rock.	Millard.	5,802	3	69.1	-0.1	92	*6	40	*27	45	1.75	+1.15	1.49	2	20	10	1	s.	Willard Burbank.	
Callao.	Juab.	5,802	1	72.4	.....	99	18	30	*27	52	T.	.....	T.	0	13	18	0	s.	E. E. Edwards.
Castle Dale—T3.	Emery.	5,500	4	69.8	+1.8	100	6	40	27	57	0.15	-0.73	0.10	2	15	11	0	.....	James Jeffs.
Cisco.	Grand.	4,385	9	71.2	-0.2	98	*18	33	28	55	0.08	-0.41	0.08	1	24	6	1	s.	H. T. Matthews.	
Deseret.	Millard.	4,541	9	71.2	-0.2	98	*18	33	28	55	0.08	-0.41	0.08	1	24	6	1	s.	S. W. Western.	
Emery.	Emery.	6,266	3	77.6	+3.4	104	*18	42	27	44	0.38	-0.39	0.29	2	21	8	1	s.	H. C. Wickman.	
Fillmore.	Millard.	5,100	13	72.8	.....	98	24	35	27	56	0.55	-0.50	0.50	2	21	8	1	s.	J. J. Starley.
Garrison—T1.	Millard.	5,100	13	72.8	.....	98	24	35	27	56	0.55	-0.50	0.50	2	21	8	1	s.	E. M. Smith.
Gov't Creek.	Tooele.	5,277	3	73.8	+1.6	95	*17	40	27	40	0.26	-1.46	0.19	3	25	6	0	s.	Walter James.	
Grand Junction, Colo.	Mesa.	4,608	12	76.9	+1.3	98	6	50	27	38	0.02	-1.12	0.01	2	19	11	1	nw.	Weather Bureau.	
Green River—T12.	Emery.	4,080	6	78.9	+2.2	108	13	50	*13	58	1.01	+0.35	0.80	3	7	5	7	.....	J. T. Farrer, Jr.
Ibapah.	Tooele.	5,010	13	71.4	+1.2	96	19	30	27	55	0.20	-0.58	0.09	1	19	0	12	.....	Owen Sheridan.
Levan.	Juab.	5,010	13	71.4	+1.2	94	*18	42	27	38	0.15	-0.58	0.09	1	19	0	12	.....	William Brown.
Manti—T1.	San Pete.	5,575	9	69.3	-1.3	94	20	38	28	46	0.11	-0.42	0.11	1	13	14	4	s.	W. M. Harmon.	
Mount Nebo.	Utah.	4,650	2	74.2	.....	98	*19	43	28	45	0.11	-0.71	T.	0	16	15	0	.....	Mrs. Frank Roberts.
Mount Pleasant.	San Pete.	5,859	11	71.2	+0.6	97	*19	39	*27	50	0.42	+0.16	0.27	3	18	13	0	sw.	Web Greene.	
Provo.	Utah.	1,532	11	68.3	+1.0	91	*17	32	26	49	0.30	-0.28	0.20	2	24	6	1	.....	Caleb Tanner.
Richfield.	Sevier.	5,323	13	71.2	+2.0	95	*4	32	27	53	0.17	-0.77	0.14	2	19	7	5	sw.	J. M. Lauritzen.	
Scipio.	Millard.	5,260	8	71.2	+2.0	95	*4	32	27	53	0.17	-0.77	0.14	2	19	7	5	sw.	Thomas Memmott.	
Soldier Summit.	Utah.	7,174	11	76.0	+7.4	101	*5	45	27	46	0.10	-1.13	0.10	1	29	0	2	.....	Ag't Rio Grande R.R.
Thistle.	Utah.	5,475	11	76.0	+7.4	101	*5	45	27	46	0.10	-1.13	0.10	1	29	0	2	.....	J. H. Mitchell.
Wellington—T2.	Carbon.	5,546	4	69.2	+0.8	98	7	36	26	56	0.33	-0.45	0.18	2	8	20	2	.....	E. E. Branch.
Averages.				72.0	+2.4						0.34	-0.19			2	19	10	2	s.	
SOUTHERN.																				
Aneth.	San Juan.	4,800	3	77.3	-0.1	102	6	45	28	50	0.04	-0.86	0.03	2	26	2	3	w.	H. R. Antes.	
Coyote.	Garfield.	5,700	2	72.2	-1.0	88	*6	28	28	54	0.30	-0.79	0.30	1	20	6	5	.....	H. J. McCullough.
Escalante.	Garfield.	5,700	3	74.6	+3.2	95	*6	52	28	33	1.12	-0.14	0.50	5	16	15	0	sw.	W. G. Bleak.	
Frisco.	Beaver.	7,318	9	71.8	0	101	19	39	28	52	0.12	0.55	0.12	1	19	11	1	sw.	S. N. Slaughter.	
Giles.	Wayne.	4,000	8	68.5	+2.0	94	8	42	28	41	0.33	-0.81	0.15	4	13	15	3	w.	J. C. White.	
Grover (near).	Wayne.	5,800	7	68.5	+2.0	94	8	42	28	41	0.33	-0.81	0.15	4	13	15	3	w.	Henry Cullum.	
Hite.	Garfield.	3,000	4	81.8	+2.3	107	18	62	*2	42	T.	-0.45	T.	0	19	12	0	.....	F. W. Gibbons.
Kanab.	Kane.	4,925	3	73.7	.....	95	6	52	27	36	1.34	.....	0.50	4	19	7	5	.....	Z. K. Judd.
La Sal.	San Juan.	7,000	3	68.8	+0.6	80	6	41	26	37	0.31	-1.01	0.17	5	10	20	1	.....	Mrs. G. W. Carpenter.
Loa.	Wayne.	7,000	11	68.0	+5.4	100	*4	33	28	58	0.40	-0.95	0.40	1	21	10	0	ne.	Michael Hansen.	
Lund.	Iron.	5,192	3	72.2	.....	98	*1	45	27	50	2.70	0.95	0.95	4	21	10	0	ne.	B. R. Transeau.
Marysville (near).	Piute.	6,180	4	67.0	-0.4	92	6	36	28	48	1.19	-0.38	0.61	12	10	13	8	sw.	G. T. Henry.	
Minersville.	Beaver.	5,070	6	77.3	+2.5	102	6	44	28	48	0.03	-0.64	0.03	1	8	21	2	.....	R. W. Dotson.
Moab.	Grand.	4,300	14	77.3	+2.5	102	6	44	28	48	0.03	-0.64	0.03	1	8	21	2	.....	Henry Crouse.
Modena.	Iron.	5,479	3	71.6	.....	94	6	43	28	45	0.92	0.31	0.31	7	22	9	0	sw.	Weather Bureau.
Monticello.	San Juan.	7,280	12	68.9	-1.1	97	*17	38	27	41	1.46	+0.04	0.89	5	19	11	1	sw.	John Bailey.	
Parowan.	Iron.	5,470	6	65.4	+0.8	90	*6	36	29											

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



[illegible]

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

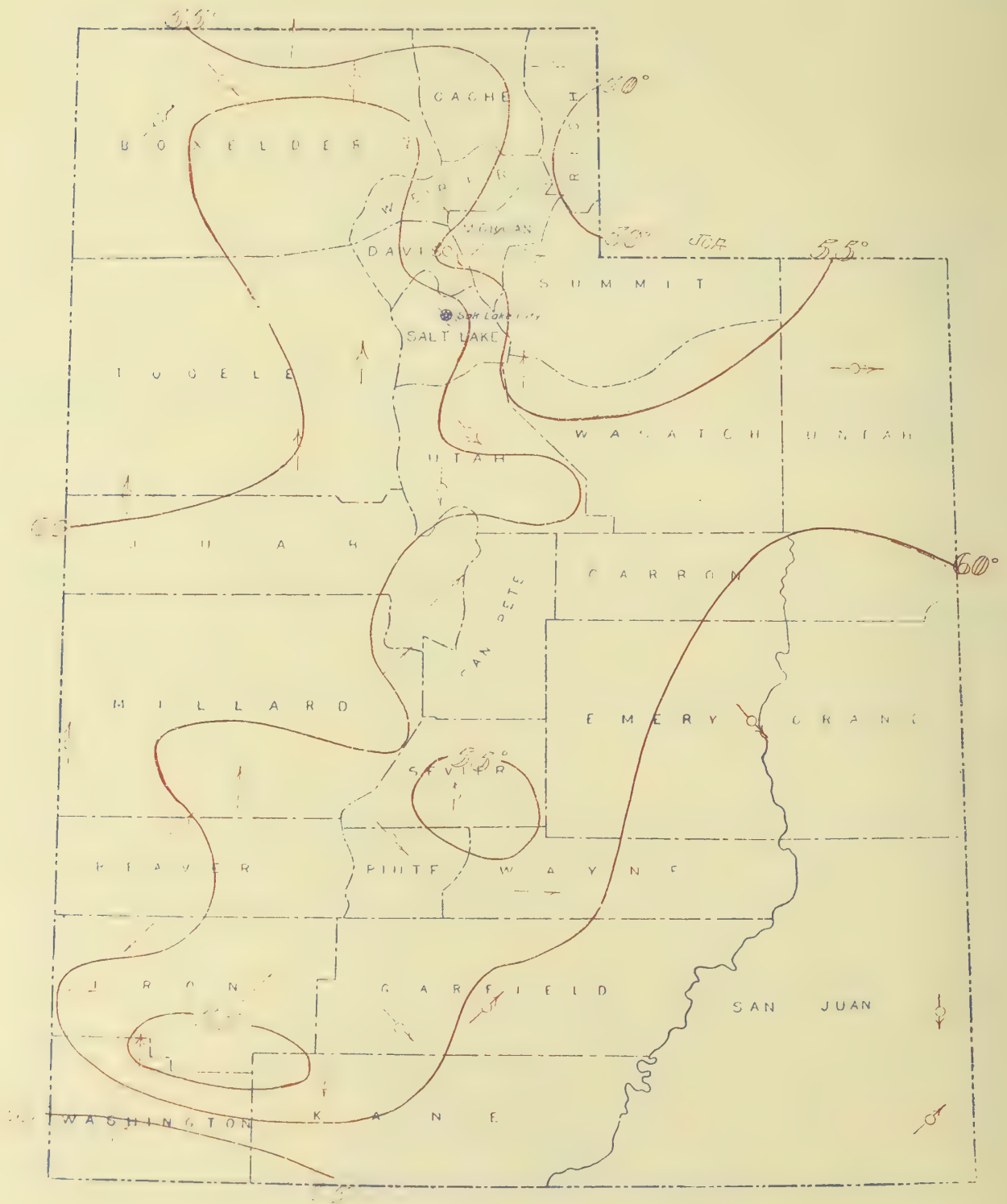
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

No. 11.

WEATHER.

During the first few days of the month the weather was unseasonably warm. About the 5th a sharp fall in temperature occurred and from that time until the 20th abnormally cool weather prevailed. During this period frequent frosts occurred, but the resulting damage was confined mostly to tender vegetation. During the last decade temperatures were generally seasonable. Unsettled conditions prevailed on the 4th and 5th, when thunderstorms were general, accompanied in many instances by high winds. These winds were particularly violent throughout the southern portion of the section, the weather station at Modena reporting a maximum velocity of 60 miles per hour. Pronounced stormy conditions again prevailed about the middle of the month and at its close. By far the greater portion of the rainfall occurred during the last period, and its effect was in the highest degree beneficial. Late crops were revived and the soil dampened to a considerable depth, thereby placing the soil in fine condition for fall plowing.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 55 stations, was 58.5° , or 2.8° below the normal. The highest local monthly mean was 66.7° at St. George; the lowest was 49.1° at Woodruff. The highest temperature recorded was 103° at Green River on the 1st and 3rd; the lowest was 16° at Woodruff on the 9th; giving an absolute range for the section of 87° . The greatest daily range for any station was 64° at Loa on the 21st. The highest temperatures of the month generally occurred from the 1st to the 4th; and the lowest from the 12th to the 16th.

PRECIPITATION.

The average precipitation, determined from the reports of 57 stations, was 0.90 inch, or 0.03 inch above the normal. A slight deficiency was recorded over the northern portion and a slight excess over the middle, while over the southern portion a decided excess occurred. The rainfall that occurred during the month was in general the result of three distinct storm areas that passed over the section. The first occurred on the 4th and 5th, the second about the 12th and the third at the close of the month. The last was, however, the most severe, and it produced by far the greater portion of the monthly precipitation. The greatest monthly amount was 3.02 inches at Ranch. No precipitation whatever occurred at Kelton, Promontory or Terrace, all situated in the northern portion of the section. The greatest rainfall in any 24 consecutive hours was 0.99 inch at St. George on the 1st. Considerable snowfall occurred over the more elevated districts of the section during the wet period of the middle of the month.

WIND AND WEATHER.

The prevailing direction of the wind was south. The total number of miles recorded at Salt Lake City was 4,568; at Modena, 7,268; and at Grand Junction, Colo., 3,540. The

maximum velocity at Salt Lake City was 40 miles from the northwest on the 11th; at Modena, 60 miles from the southwest on the 5th; and at Grand Junction, Colo., 28 miles from the southwest on the 6th.

The average number of clear days during the month was 17; partly cloudy days, 7; cloudy days, 6. Determined from the automatic sunshine record, Salt Lake City had 71 per cent; Modena, 78 per cent; Grand Junction, Colo., 78 per cent; and Pocatello, Idaho, 76 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 68 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 38 per cent, the lowest observed reading being 11 per cent on the 2nd; at Modena, 41 per cent, the lowest observed reading being 5 per cent on the 18th; at Grand Junction, Colo., 51 per cent, the lowest observed reading being 18 per cent on the 11th; at Pocatello, Idaho, 42 per cent, the lowest observed reading being 15 per cent on the 21st.

There was an average of 6 days with .01 inch or more precipitation; 6 over the northern and middle portions, and 5 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

- Lunar halo.—Huntsville, 27.
- Earthquake.—Marysvale, 14, 28.
- Sleet.—Levan, 14; Morgan, 11; Parowan, 14.
- Heavy frost.—Emery, 8; Garrison, 15; Henefer, 18.
- Lunar coronae.—Government Creek, 9, 10; Henefer, 27.
- Hail.—Castle Dale, 28; Frisco, 30; Huntsville, 30; Levan, 14; Modena, 30; Moab, 11; Park City, 6; Plateau, 28; Tropic, 1, 30.
- Light frost.—Black Rock, 7; Government Creek, 9, 15; Lund, 16; Monticello, 9-12; Ogden, 16; Salt Lake City, 8, 14, 15; Tropic, 6; Vernal, 8, 9.
- Killing frost.—Aneth, 12; Black Rock, 12; Callao, 13, 15-17; Castle Dale, 19; Farmington, 8, 15, 16; Garrison, 9, 10, 12; Giles, 12; Grover, 12; Heber, 16; Henefer, 9; Huntsville, 9, 10; Levan, 12; Lund, 17; Marysvale, 12, 15; Moab, 15-17; Morgan, 10, 11, 15-18; Ranch, 7; Snowville, 8-10.
- High winds.—Aneth, 6, 11, 13; Black Rock, 5, 11; Callao, 12; Emery, 24; Garrison, 5; Giles, 11, 12; Government Creek, 5, 12; Grover, 6, 11; Henefer, 4, 5, 25; Huntsville, 5; Levan, 5, 12, 14; Lund, 5, 6, 8, 10-13; Marysvale, 5, 6, 12; Meadowville, 8; Monticello, 5-8; Mount Nebo, 5, 12; Mount Pleasant, 11; St. George, 5, 6; Scipio, 5, 12; Salt Lake City, 5, 7-12, 30; Tropic, 11.
- Thunderstorms.—Black Rock, 30; Castle Dale, 30; Farmington, 29; Frisco, 27, 29, 30; Garrison, 28-30; Giles, 5, 13, 27, 30; Government Creek, 4, 5, 12; Grover, 14, 22; Heber, 2, 3, 29; Henefer, 4, 5, 7, 28, 30; Huntsville, 5, 11, 12, 28, 30; Kanab, 1, 2; Levan, 28, 29; Lund, 1; Marysvale, 2, 5, 6, 30; Meadowville, 30; Modena, 1-3, 30; Moab, 1, 2, 5, 6, 11, 28, 30; Morgan, 5, 7, 30; Ogden, 30; Plateau, 29, 30; Ranch, 2; Salt Lake City, 4, 5, 28; Tropic, 29, 30; Vernal, 6, 28.

OBSERVERS' REMARKS.

Black Rock.—The first killing frost of the season occurred on the 12th. Since the 12th killing frosts have been frequent. No damage was observed.—Willard Burbank.

Emery.—Harvesting is completed and grain is about all thrashed.—H. C. Wickman.

Government Creek.—The month was dry and warm.—Walter James.

Green River.—The third crop of lucerne is up. The hay crop for the year is good. Water for irrigation purposes is sufficient for the needs of all crops.—John T. Farrer.

Grover.—The first frost occurred on the night of the 11th. Grain and hay are all harvested.—Henry Cullum.

Henefer.—Farm work has been delayed owing to recent storms. The range is greatly benefited.—William Brewer.

Huntsville.—The storms during the month delayed harvesting and thrashing. Thrashing is not completed.—Lars Petersen.

Kanab.—The long-continued cloudy and rainy weather damaged the third cutting of lucerne.—Z. K. Judd.

Levan.—No fall grain has been sown. The late rains were very beneficial to the ground that is to be ploughed this fall.—Wm. Brown.

Marysville.—The second crop of lucerne was very light owing to the shortage of irrigation water.—Geo. T. Henry.

Meadowville.—The month was very favorable to all crops, and the frequent rains mellowed the soil nicely for fall ploughing.—J. S. Moffat.

Mt. Nebo.—The month was very dry. The first frost was unusually early. Fruit is scarce.—Mrs. Frank Roberts.

Ranch.—The month was very wet. The first frost did a great deal of damage to late grain.—J. W. Seaman.

Tropic.—The month closed with thunder showers and high winds. Killing frost occurred on the 11th. Grain and hay are all harvested.—Edw. P. Bolton.

Vernal.—The frost did but little damage to vegetation owing to the advanced stage reached before the frost occurred. Fruit of excellent quality is very plentiful. The hay crops were about an average.—R. Veltman.

CROP CONDITIONS.

The harvesting of small grain was practically completed about the middle of the month, with thrashing under rapid headway. The latter work was nearly finished at the close, and in some localities was already completed. The yields have generally been a good average, and in many instances have been above expectations. Plowing for fall grain was begun about the middle of the month, but as the ground was generally too dry, little progress was made. The heavy general rains at the close of the month placed the soil in good condition, and rapid progress in this work can be expected. Some sowing had been done in localities, and in such places the crop was coming up. Corn was ripening fast and being cut. The yields were generally good, though considerable damage resulted in many localities from the frosts. The third crop of lucerne had been cut, with yields only fair in the northern, but generally good in the southern part of the section. Beets were being dug and the yields have been generally satisfactory. Potatoes and tomatoes were being gathered. The yields have been about the average, but considerable damage to tomatoes by frost is reported from localities. The ranges appear to be generally in poor condition, and much loss of stock is anticipated in some districts during the coming winter.

PERSONAL AND GENERAL.

The Director was pleased to receive calls from Mr. F. H. Brandenburg, District Forecaster for the Rocky Mountain District, including Utah, with headquarters at Denver; Mr. W. S. Palmer, the Section Director of Wyoming, and Mr. R. M. Harding, the Section Director of New Mexico. These gentlemen had been attending the Irrigation Congress at Ogden, before which body Mr. Brandenburg submitted an article on "Weather Bureau co-operation in Reclamation Work."

The Director regrets that he was absent when Mr. Welch, observer at Morgan, called at the office. Mr. Welch is an enthusiastic supporter of the Weather Bureau, and his active co-operation is much appreciated.

Mr. James, our observer at Government Creek, was also a caller at the office a short time ago.

Mr. Tanner, our observer at Provo, called at the office for the purpose of securing some data concerning the rainfall of the Utah Lake watershed. Mr. Tanner is engaged in investigating the feasibility of utilizing the present site of the Lake for a vast irrigation reservoir.

THE IRRIGATION CONGRESS.

An event of overshadowing interest to the people of Utah during the month was the session of the Irrigation Congress in the city of Ogden from the 15th to 18th. Its deliberations and conclusions have already been made known to our readers through the medium of the daily press. In many respects this session of the Congress was so extraordinary that it can truly be said to have marked an epoch in the history of irrigation throughout the arid west. For the first time this momentous subject has assumed a national importance and has thereby scored a great triumph. It was indeed appropriate that the Congress should meet within the borders of our Commonwealth, a place where the beneficent results of intelligent irrigation can be seen at their best. For through that was the desert made to literally "blossom like the rose." While the people of Utah were indeed not the first to use this method of extracting from the soil her fruits, yet it can be said that they were in the van in illustrating the feasibility of supplying the much-needed moisture artificially, when as is the case in our inter-mountain region, with its matchless climate and virgin soil, the magic touch of water was the one thing needed to compel nature to yield in abundance. What irrigation has done for Utah is palpable to the most superficial observer. Places where formerly desolation reigned undisturbed now smile in all the gaiety of nature's plumage. If such be the astounding results of individual effort, what will be accomplished when an elaborate system of scientific irrigation supersedes it, can only be conjectured. This vast inland empire, mighty though it now is, will rise to a greatness that the old pioneers with all their faith and confidence in the future never dreamed of. Her hillsides and valleys will teem with verdure and her homes filled with happiness. Anything that contributes to this end will be greeted with approval and satisfaction by our people, and the Irrigation Congress in bringing the attention of the nation to this work is a great factor in producing that longed-for result.

Comparative Temperature and Precipitation Data for September during the past thirteen years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	60.7	104	28	1.89
1892	64.6	102	20	0.09
1893	58.0	99	12	0.84
1894	57.0	102	13	1.36
1895	60.8	103	9	0.60
1896	61.0	110	16	1.00
1897	62.2	100	25	1.64
1898	61.0	102	18	0.10
1899	65.3	103	22	0.05
1900	57.4	96	10	1.26
1901	59.3	100	11	0.21
1902	60.1	103	10	0.56
1903	58.5	103	16	0.90

GREAT SALT LAKE.

The stage of the water on September 1st, 15th and October 1st was 2 feet 6 inches, 2 feet 8 inches, and 3 feet below the zero of the gage, respectively.

LATE AUGUST REPORTS.

Escalante: Mean temperature, 70.6°; highest 91° on the 7th and 9th; lowest, 48° on the 1st and 29th; greatest daily range, 40°; precipitation, 0.43 inch; greatest in 24 consecutive hours, 0.13 inch; rainy days, 5; clear, 8; partly cloudy, 16; cloudy, 7; direction of wind, west.

Emery: Mean temperature, 70.0°; highest, 84° on the 8th; lowest, 35° on the 27th; greatest daily range, 39°; precipitation, trace; greatest in 24 consecutive hours, trace on the 9th, 10th and 14th; rainy days, 0; clear, 3; partly cloudy, 23; cloudy, 5; direction of wind, southwest.

CLIMATOLOGICAL DATA FOR UTAH, SEPTEMBER, 1903.

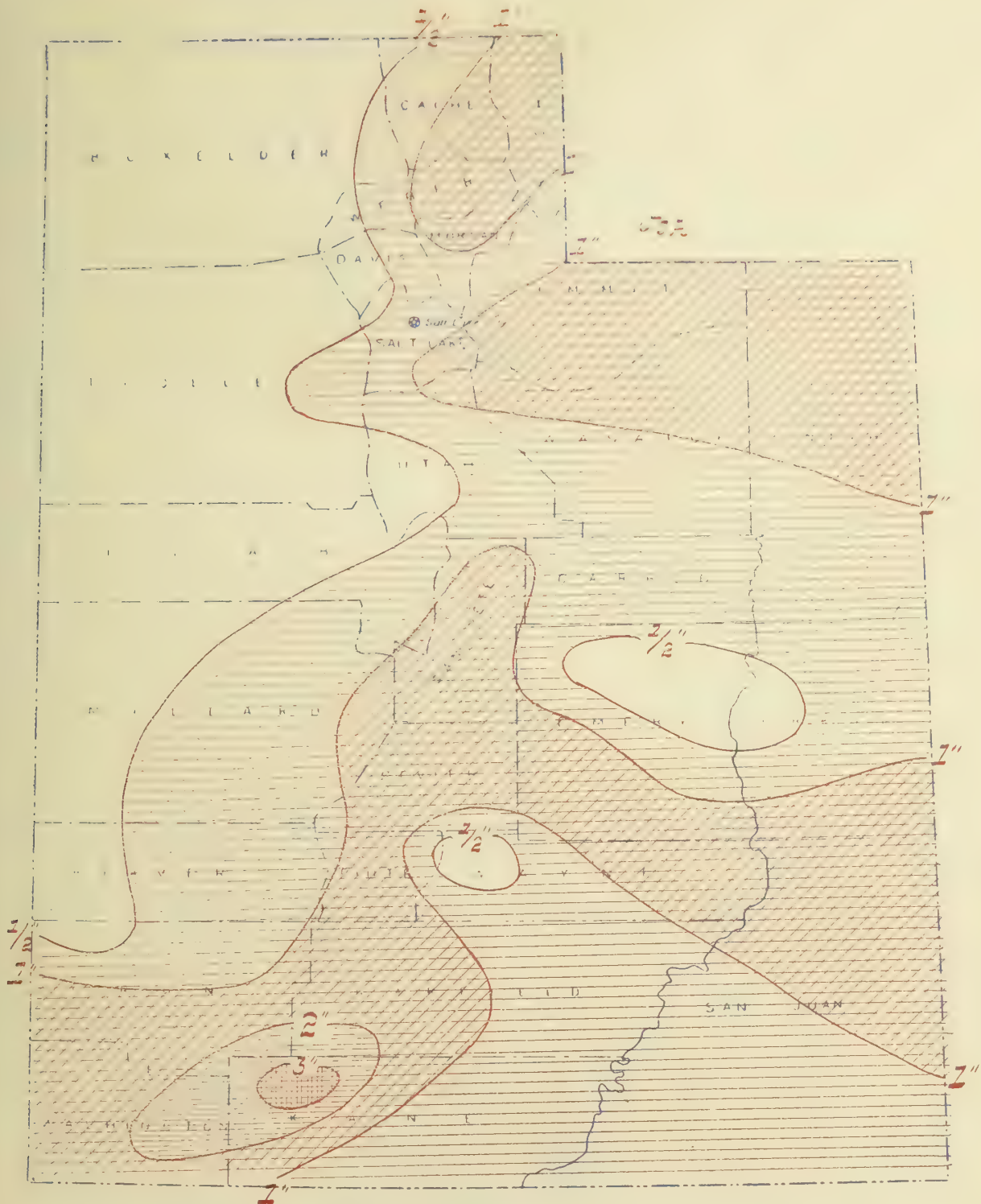
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall in inches.	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.
NORTHERN.																				
Alpine.	Utah	4,900	7	56.6	-8.9	78	27	35	12	38	0.10	-0.35	0.05	0.0	2	18	1	11	S.	T. B. Whitby.
Blue Creek.	Box Elder	4,387	25	56.6	-8.9	78	27	35	12	38	0.10	-0.35	0.05	0.0	2	18	1	11	S.	Agent So. Pacific Co.
Corinne.	Box Elder	4,240	33	60.0	-5.0	98	*1	38	16	49	0.47	-0.17	0.20	0.0	3	17	4	9	n.	W. E. Johnson.
Evanston, Wyo.	Utah	6,959	8	49.5	-4.4	83	*1	18	9	40	0.76	0	0.25	2.0	8	19	3	8	W.	Frank Tucker.
Farmington - T2.	Davis	4,267	3	55.3	-6.1	90	*1	29	16	40	0.88	-0.08	0.45	0.0	4	16	6	6	nw.	Charles Boylin.
Ft. Duchesne.	Utah	5,606	15	57.0	-4.0	94	*1	27	15	50	1.20	+0.27	0.32	0.0	7	20	8	2	.....	Post Surgeon.
Heber.	Wasatch	5,606	10	53.4	-1.8	92	*2	18	16	60	1.17	+0.19	0.30	T.	6	20	4	6	S.	John Crook.
Henefer.	Summit	5,301	4	52.8	+0.7	90	*1	20	*9	58	0.93	-0.29	0.35	0.0	7	20	6	4	W.	William Brewer.
Huntsville.	Weber	5,100	8	56.9	-4.9	92	1	25	15	46	0.00	-0.41	0.00	0.0	0	24	0	6	W.	Lars Petersen.
Kelton.	Box Elder	4,230	25	56.9	-4.9	92	1	25	15	46	0.00	-0.41	0.00	0.0	0	24	0	6	ne.	Agent So. Pacific Co.
Logan - T1.	Cache	4,507	12	58.2	-2.9	90	*1	32	14	36	0.90	-0.19	0.45	0.0	3	19	3	8	W.	James Dryden.
Meadowville.	Rich.	6,200	4	51.8	-1.7	87	1	26	*9	45	1.20	+0.55	0.80	T.	3	19	3	8	W.	J. S. Moffat.
Millville.	Cache	4,848	8	54.0	.....	91	5	25	*9	51	0.98	-0.87	0.61	0.0	5	19	6	5	sw.	Fred. Yeates.
Morgan.	Morgan	4,191	10	55.9	-2.7	95	21	27	26	49	0.50	-0.24	0.30	0.0	2	19	4	7	n.	T. R. G. Welch.
Oakley, Idaho.	Cassia	4,310	2	58.8	.....	88	4	35	*13	30	0.94	0.92	0.35	0.0	4	19	7	4	nw.	John Adams.
Ogden No. 1.	Weber	4,310	33	60.3	-5.4	96	4	43	*14	30	0.92	+0.24	0.35	0.0	6	17	0	13	S.	Enoch Farr.
Ogden No. II.	Weber	4,310	33	60.3	-5.4	96	4	43	*14	30	0.92	+0.24	0.35	0.0	6	17	0	13	S.	W. H. Chevers.
Park City.	Summit	6,846	6	54.4	+0.6	91	4	24	15	39	0.42	-0.24	0.17	T.	5	16	9	5	.....	M. H. White.
Pocatello, Idaho.	Bannock	4,488	3	56.9	-3.0	90	1	28	15	46	1.17	+0.40	0.29	4.0	6	14	9	7	se.	Weather Bureau.
Promontory.	Box Elder	4,913	33	56.6	+2.5	93	3	38	*15	31	0.30	-0.64	0.00	0.0	0	28	1	1	.....	Agent So. Pacific Co.
Saltair Beach.	Salt Lake	4,366	29	61.6	-2.5	92	3	37	16	35	0.84	-0.09	0.48	0.0	7	14	9	7	se.	Francis W. Bailey.
Salt Lake City.	Salt Lake	4,366	29	61.6	-2.5	92	3	37	16	35	0.84	-0.09	0.48	0.0	7	14	9	7	se.	Section Center.
Snowville.	Box Elder	4,366	13	54.2	-4.2	93	*1	24	14	50	0.00	-0.49	0.04	0.0	0	12	16	2	sw.	Joseph Robbins.
Terrace.	Box Elder	4,550	33	59.3	-6.3	95	*1	24	14	50	0.00	-0.29	0.00	0.0	0	12	16	2	sw.	A. W. Davis.
Tooele.	Tooele	4,900	7	62.0	-1.9	96	4	33	13	40	0.79	+0.37	0.34	0.0	4	23	4	3	S.	I. J. Elkington.
Vernal.	Utah	5,050	8	57.9	-2.3	94	1	29	16	46	1.50	+0.35	0.45	0.0	8	18	10	2	W.	Richard Veltman.
Weston, Idaho.	Oneida	4,460	5	54.8	-2.6	94	*1	24	15	54	0.31	-0.03	0.10	0.0	5	16	1	13	n.	William Chatterton.
Woodruff.	Rich.	6,500	6	49.1	-2.4	90	4	16	9	55	1.15	+1.09	0.60	9.5	3	15	5	10	W.	T. J. Tingey.
Averages				57.2	-4.0						0.79	-0.17			4	18	6	6	S.	
MIDDLE.																				
Black Rock.	Millard	5,802	3	57.3	-0.4	88	*1	25	12	51	0.92	+0.50	0.69	0.0	3	14	13	3	S.	Willard Burbank.
Callao.	Juab	5,802	1	59.6	.....	95	1	26	*16	56	0.31	0.31	0.0	0	1	19	4	7	S.	E. E. Edwards.
Castle Dale.	Emery	5,500	4	57.8	-1.6	94	*1	19	16	57	0.49	-0.19	0.25	0.0	2	19	11	0	.....	James Jeffs.
Cisco.	Grand	4,385	11	59.0	-1.6	96	3	22	16	60	0.67	+0.10	0.55	0.0	3	15	7	8	S.	H. T. Matthews.
Deseret.	Millard	4,541	9	59.0	-1.6	96	3	22	16	60	0.67	+0.10	0.55	0.0	3	15	7	8	S.	S. W. Western.
Emery.	Emery	6,260	3	52.6	-4.0	78	5	30	21	36	1.52	+1.52	0.92	0.0	2	8	10	12	sw.	H. C. Wickman.
Fillmore.	Millard	5,100	13	64.8	-0.2	102	*1	35	*9	50	1.00	+0.12	0.65	0.0	4	20	8	1	S.	J. J. Starley.
Garrison - T1.	Millard	6,112	3	60.2	-0.9	92	*1	25	15	47	0.38	-0.37	0.05	0.0	2	19	9	2	S.	E. M. Smith.
Gov't Creek.	Tooele	5,277	3	60.2	-0.9	92	*1	25	15	47	0.38	-0.37	0.05	0.0	2	19	9	2	S.	Walter James.
Grand Junc., Colo.	Mesa	4,068	12	62.6	-4.6	93	*1	32	15	40	0.69	-0.24	0.18	0.0	12	18	7	5	nw.	Weather Bureau.
Green River.	Emery	4,680	6	64.2	-0.2	103	*1	30	*16	57	0.12	-0.76	0.10	0.0	2	15	3	12	nw.	J. T. Farrer, Jr.
Ibapah.	Tooele	5,522	3	60.2	-0.9	92	*1	25	15	47	0.38	-0.37	0.05	0.0	2	19	9	2	S.	Owen Sheridan.
Levan.	Juab	5,010	13	57.8	-2.7	89	*1	28	12	43	0.92	-0.14	0.37	0.0	5	18	6	6	sw.	William Brown.
Manti.	San Pete.	5,575	9	58.2	-3.7	92	4	26	*12	45	0.98	+0.17	0.31	0.0	4	9	17	4	n.	W. M. Harmon.
Mount Nebo.	Utah	4,650	2	60.9	.....	95	5	29	16	47	0.26	0.13	0.0	0	2	16	9	5	n.	Mrs. Frank Roberts.
Mount Pe's nt.	San Pete.	5,859	11	58.9	-3.4	95	1	27	14	39	1.57	+0.75	0.68	0.0	5	15	15	0	.....	Web Greene.
Provo.	Utah	4,532	11	58.8	-1.1	95	4	27	16	51	0.72	+0.33	0.28	0.0	6	10	17	3	nw.	Caleb Tanner.
Richfield.	Sevier	5,323	13	55.8	-2.6	90	1	27	*11	49	1.00	+0.53	0.50	0.0	5	22	5	3	.....	J. M. Lauritzen.
Scipio.	Millard	5,260	8	58.9	-0.9	93	3	19	15	58	0.98	+0.32	0.26	0.0	8	14	7	9	sw.	Thomas Memmott.
Soldier Summit.	Utah	7,473	11	61.6	+4.5	100	1	34	16	45	0.66	-0.40	0.20	0.0	6	22	0	8	.....	Ag't Rio Grande R.R.
Thistle.	Utah	5,675	11	61.6	+4.5	100	1	34	16	45	0.66	-0.40	0.20	0.0	6	22	0	8	.....	J. H. Mitchell.
Wellington.	Carbon.	5,546	4	59.2	-0.6						0.63	+0.13			4	16	8	6	S.	E. E. Branch.
Averages				59.2	-0.6						0.63	+0.13			4	16	8	6	S.	
SOUTHERN.																				
Aneth.	San Juan	4,800	3	64.2	-2.8	96	*1	32	*16	49	0.93	+0.19	0.47	0.0	7	13	8	9	sw.	H. R. Antes.
Coyote.	Garfield	5,700	2	61.1	-0.4	89	*5	31	16	44	1.10	+1.10	0.75	0.0	4	9	11	10	sw.	H. J. McCullough.
Escalante.	Garfield	5,700	3	61.1	-0.4	89	*5	31	16	44	1.10	+1.10	0.75	0.0	4	9	11	10	sw.	W. G. Bleak.
Frisco - T1.	Beaver	7,318	9	61.3	-1.8	90	*3	33	14	58	0.82	+0.43	0.45	0.0	4	13	11	5	sw.	S. N. Slaughter.
Giles.	Wayne	4,000	8	61.2	-3.7	88	*1	29	12	54	1.17	+0.62	0.60	0.0	3	22	8	0	.....	J. C. White.
Grover (near).	Wayne	5,800	7	57.2	-1.8	84	*1	26	12	46	0.55	+0.01	0.25	T.	3	17	10	3	W.	Henry Cullum.
Hite.	Garfield	3,000	4	69.8	-2.0	101	4	42	30	47	0.32	0	0.32	0.0	1	15	13	2	.....	F. W. Gibbons.
Kanab.	Kane	4,925	3	64.6	.....	91	1	41	16	37	0.75	0.54	0.0	4	23	3	4	.....	Z. K. Judd.	
La Sal - T13-P13.	San Juan	7,000	3	54.8	+1.7	85	*4	25	14	61	0.67	-0.17	0.35	.....	5	10	6	1	.....	Mrs. G. W. Carpenter.
Loa.	Wayne	7,000	11	54.8	+1.7	85	*21	20	16	64	0.35	-0.17	0.35	.....	1	20	3	2	ne.	Michael Hansen.
Lund - T5.	Iron	5,092	3	60.6	-1.3	89	*1	25	12	48	0.50	0.50	0.0	0	8	11	6	13	nw.	B. R. Transeau.
Marysville (near).	Piute	6,180	4	56.7	-1.3	89	3	25	*12	50	1.04	+0.64	0.73	0.0	8	11	6	13	nw.	G. T. Henry.
Minersville.	Beaver	5,070	6	64.4	-1.2	98	1	33	*15	50	1.27	+0.19	0.36	0.0	7	16	7	7	R. W. Dotson.
Moab.	Grand.	4,300	14	64.4	-1.2	98														

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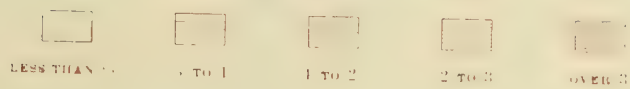
‡ Indicates 100: *1, 101, etc. † 110.

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TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES - IN INCHES



Day of month.

† Precipitation incomplete.

851. C
UAB

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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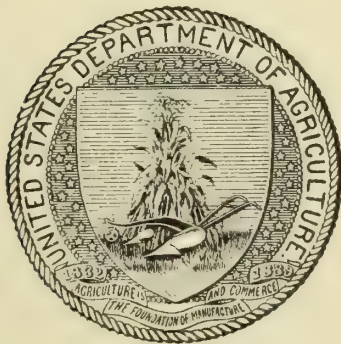
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

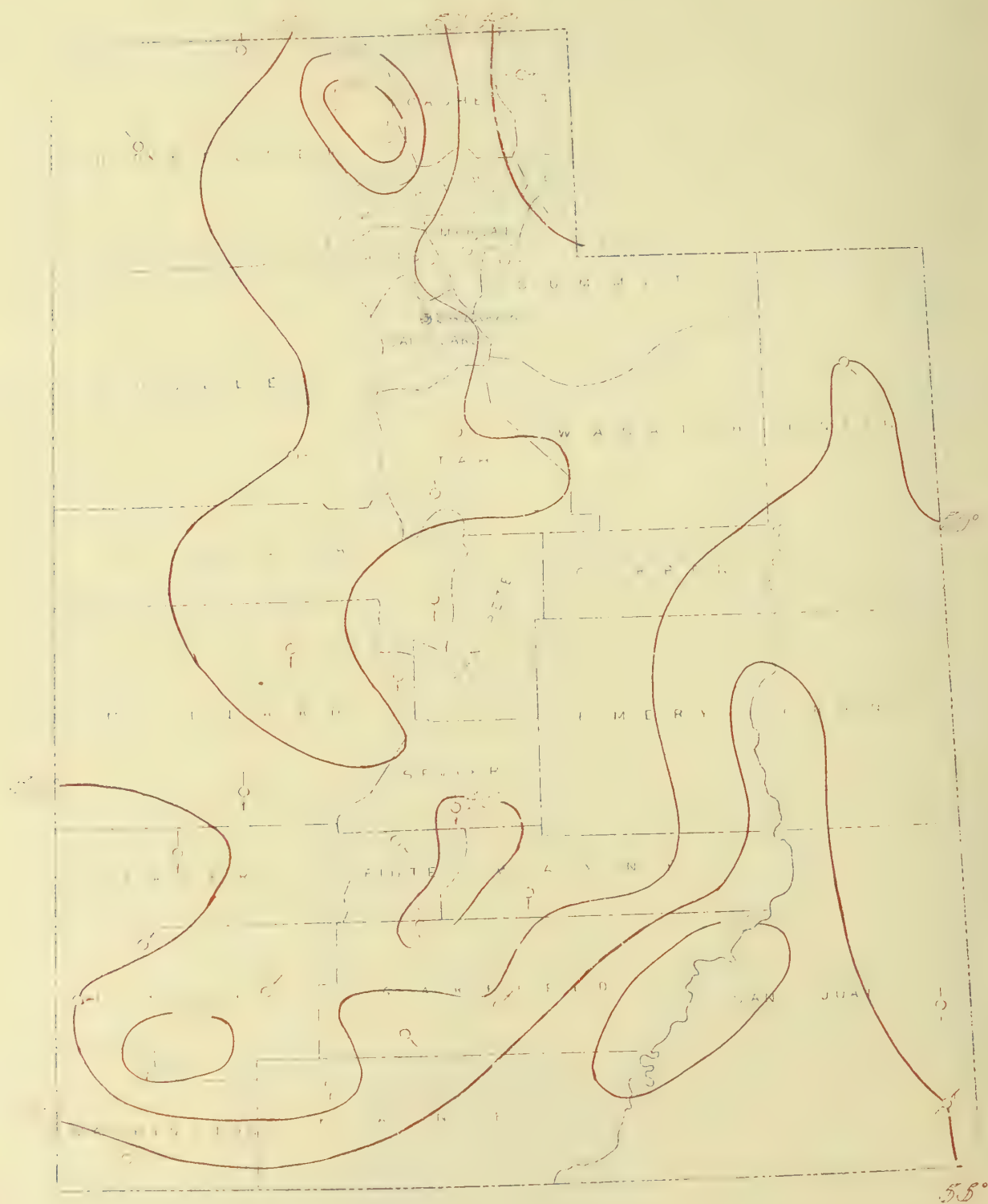
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. V.

SALT LAKE CITY, UTAH.

No. 12.

WEATHER.

Cold, stormy weather prevailed during the first half decade, being but a continuation of the unsettled conditions that prevailed during the last few days of the preceding month. During this period practically the entire precipitation for the month occurred. This was succeeded by clear, settled weather that prevailed until near the close of the month. During this portion of the month absolutely clear skies were general, scarcely a cloud appearing in the sky, and in such rare cases rapidly disappearing, leaving the firmament in its usual cloudless condition. Warm days and cool nights were the rule, but mean temperatures were almost uniformly above the normal. Toward the close of the month temperatures fell decidedly, and during the last two days the weather was abnormally cool, the minimum temperatures falling below the freezing point. Light frosts were frequent during the month, but the first general killing frosts did not occur until the abnormally cool weather of the last few days, a period much later than usual in this region.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 50.3° , or 1.3° above the normal. The highest local monthly mean was 62.6° at Blue Creek; the lowest was 42.6° at Meadowville. The highest temperature recorded was 97° at Green River on the 6th; the lowest was 6° at Ibapah on the 31st; giving an absolute range for the section of 91° . The greatest daily range for any station was 64° at Green River on the 21st and 25th. The highest temperatures of the month were generally recorded on the 8th, 9th and 18th; and the lowest on the 30th and 31st.

PRECIPITATION.

The average precipitation, determined from the reports of 60 stations, was 0.89 inch, or 0.13 inch above the normal. A slight deficiency was recorded over the northern portion, while excessive precipitation occurred over the middle and southern portions, the excess being slight over the former but considerable over the latter. Practically the entire rainfall fell during the first half decade, scarcely any precipitation whatever occurring during the remainder of the month. The greatest monthly amount was 2.72 inches at Morgan. No precipitation whatever occurred at Green River, Monticello or Tropic. The greatest rainfall in any 24 consecutive hours was 2.01 inches at Parowan on the 1st and 2nd. Very little snowfall occurred throughout the section, and that only over the more elevated districts.

WIND AND WEATHER.

The prevailing direction of the wind was north. The total number of miles recorded at Salt Lake City was 3,929;

at Modena, 6,357; at Grand Junction, Colo., 3,213; and at Pocatello, Idaho, 5,317. The maximum velocity at Salt Lake City was 36 miles from the southwest on the 10th; at Modena, 42 miles from the southwest on the 9th; at Grand Junction, Colo., 26 miles from the southwest on the 6th; and at Pocatello, Idaho, 36 miles from the southwest on the 6th.

The average number of clear days during the month was 24; partly cloudy days, 3; cloudy days, 4. Determined from the automatic sunshine record, Salt Lake City had 71 per cent; Modena, 93 per cent; Grand Junction, Colo., 87 per cent; and Pocatello, Idaho, 76 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 86 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 38 per cent, the lowest observed reading being 11 per cent on the 2nd; at Modena, 43 per cent, the lowest observed reading being 11 per cent on the 18th; at Grand Junction, Colo., 43 per cent, the lowest observed reading being 18 per cent on the 27th; at Pocatello, Idaho, 50 per cent, the lowest observed reading being 18 per cent on the 18th and 19th.

There was an average of 3 days with .01 inch or more precipitation; 4 over the northern and 2 over the middle and southern portions.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halo, lunar.—Levan, 28.
Frost, heavy.—Emery, 29.
Coronae, lunar.—Marysvalle, 27, 28.
Hail.—Black Rock, 2; Ft. Duchesne, 2; Levan, 1, 2; Morgan, 29; Vernal, 3.
Aurora.—Coyoto, 31; Ft. Duchesne, 31; Henefer, 31; Modena, 31; Parowan, 31; Salt Lake City, 31.
Frost, killing.—Government Creek, 30, 31; Grover, 26, 30, 31; Levan, 30, 31; Moab, 16; St. George, 31; Salt Lake City, 30; Vernal, 31.
Thunderstorms.—Farmington, 2; Ft. Duchesne, 2; Frisco, 1, 2; Giles, 1, 2; Grover, 2; Henefer, 2; Huntsville, 10; Levan, 1, 2; Marysvalle, 1; Moab, 1, 2; Modena, 1; Parowan, 1; Vernal, 1.
High winds.—Callao, 9; Deseret, 9, 10, 29; Garrison, 9, 10; Giles, 29; Government Creek, 9, 10; Grover, 10; Huntsville, 9; Meadowville, 6, 29; Modena, 9; Salt Lake City, 10; Terrace, 1; Vernal 6, 15.

OBSERVERS' REMARKS.

Black Rock.—The past month was remarkably clear, which is unusual for this locality.—Willard Burbank.

Deseret.—October was a remarkable month for sunshine and north winds. Ideal weather conditions have prevailed for all kinds of fall work.—S. W. Western.

Emery.—The rain in the early part of the month proved of great benefit to the ranges and for fall plowing. Thrashing is completed and the yields secured were generally large. Potatoes yielded well. Cattle are doing very well. Hay in stack was damaged by rain in the fore part of the month.—H. C. Wickman.

Vernon.—The month was very warm and dry; but little farm work was done.—Walter James.

Green River.—In some parts of this section the farmers are putting up the fourth crop of lucerne.—John T. Farrer, Jr.

Henefer.—The first decade was very wet, but the rest of the month was fine. The weather conditions were favorable for all kinds of farm work.—Wm. Brewer.

Huntsville.—The first 10 days were somewhat stormy, but the remainder of the month was clear. The rain placed the ground in good condition for fall plowing.—Lars Petersen.

Kanab. The past month was unusually warm; no killing frosts have occurred; the leaves on the trees are yet green. Z. K. Judd.

Levan. A great deal of farm work was done during the month. The rain in the fore part of the month benefited the ground considerably. A much larger acreage of small grain was sown this fall than for several years.—Wm. Brown.

Marysville.—Crops are all harvested, and the yields of grain were about average. Lucerne was slightly below the average. Seed lucerne is a failure, the bloom having been destroyed by insects; fruit and vegetables are better than usual.—Geo. T. Henry.

Meadowville. The past month was exceptionally fair, and farmers have completed all their fall plowing and in some places the wheat is sown. J. S. Moffatt.

Morgan. A heavy rainfall occurred in the early part of the month. The weather has been favorable for the gathering of potatoes, beets and other root crops. Thrashing was all completed about the middle of the month, and grain generally yielded well. The ground is almost too dry for fall plowing.—T. R. G. Welch.

Parowan. The heavy rain on the 1st and 2nd did some damage to hay stacks, but it was of much benefit to the ground, softening it for fall plowing.—Jas. Connell.

Pinto.—The first week of the month was wet and cool; the rest of the month was ideal for fall work.—J. H. Hansen.

Ranch.—The rain in the early part of the month prepared the ground for fall plowing. Farmers are well pleased with the grain yields.—J. W. Seaman.

Vernal.—A remarkably fine month, although the temperatures were below normal. R. Veltman.

CROP CONDITIONS.

The heavy rains during the first half decade of the month and the ensuing warm, clear weather were particularly favorable for farm work. The rainfall had the effect of softening the ground and rendering the soil in proper condition for fall plowing, and the settled weather thereafter enabled farm work to be pushed vigorously. In consequence, fall wheat was nearly all sown and in many districts is coming up, the warm sunshine being favorable for rapid germination. All reports indicate that the acreage will be much larger than usual, especially that devoted to dry farming. Considerable barley also has been sown, and this, too, is coming up. The digging of beets progressed rapidly during the month, and by the close was nearing completion. Yields are generally reported as being good. Potatoes also are nearly all gathered, with the crops generally up to the average. Pastures were greatly benefited by the heavy rains of the fore part of the month, but which at the same time damaged hay in stack somewhat. Cattle have improved owing to the better pasturage. Apples were nearly all gathered, with yields generally good, and the canning of tomatoes has been completed. The crop of this wholesome vegetable has been on the whole fairly good. Thrashing was completed early in the month.

PERSONAL AND GENERAL.

During the course of the month the Director inspected the voluntary stations at Ogden. The station under the supervision of Mr. Farr was found to be excellently situated in the midst of a fine orchard and vineyard, and the equipment in first class condition. The station under the supervision of Mr. Chevers is situated at the S. P. R. R. freight depot, of which Mr. Chevers is the agent. The equipment is limited, but even with insufficient means Mr. Chevers has been able to do good work.

Mrs. Frank Roberts has removed from Mt. Nebo and has been succeeded as observer by Mr. D. C. Walkey, who is the postmaster

at that point. Mrs. Roberts always kept splendid records, and the Director regrets to lose the services of so valuable an observer.

The Director was pleased to receive calls from Mr. S. R. Burch, Chief Clerk of the Department of Agriculture; Dr. Richard W. Hickman, Chief of the Quarantine Division, Bureau of Animal Industry; and Mr. A. D. Melvin, Assistant Chief, Bureau of Animal Industry, all of Washington, D. C.

The Director has received a large standard gage from the Central Office for use in recording the stage of water of Great Salt Lake. Prof. G. L. Swendsen, in charge of the Geological Survey for this district, has kindly volunteered to co-operate with the Bureau in the erection of this gage. The gage will be established as soon as steel piles can be secured.

Comparative Temperature and Precipitation Data for October during the past thirteen years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	49.7	90	12	0.15
1892	48.3	92	7	1.08
1893	46.9	92	5	0.29
1894	49.8	94	9	0.47
1895	49.2	95	10	0.56
1896	51.0	94	13	1.61
1897	47.8	86	7	2.18
1898	47.0	90	3	0.67
1899	45.6	96	9	1.50
1900	48.9	95	1	0.87
1901	51.7	93	5	1.04
1902	50.0	91	8	0.28
1903	50.3	97	6	0.89

GREAT SALT LAKE.

The stage of the water on October 1 and 15 was 3 feet, and on November 1, 3 feet and 1 inch below the zero of the gage.

LATE SEPTEMBER REPORTS.

Wellington (record for 26 days): Mean temperature, 59.4°; highest, 97° on 4th; lowest, 21° on 11th and 25th; greatest daily range, 54°; total precipitation, 1.28 inches; greatest in 24 hours, 0.48 inch; number of rainy days, 5; clear, 16; partly cloudy, 4; cloudy, 7.

Coyoto: Mean temperature, 52.5°; highest, 81° on the 1st and 4th; lowest, 17° on the 16th; greatest daily range, 54°; total precipitation, 0.11 inch; greatest in 24 hours, 0.05 inch; number of rainy days, 4; clear, 17; partly cloudy, 3; cloudy, 10.

CORRECTION TO SEPTEMBER REPORT.

Monthly mean temperature, page 5, recorded 59.5°, should be 58.5°.

AURORA BOREALIS.

To the early risers on the morning of the 31st was vouchsafed a sight as unusual as it was charming and beautiful. We refer to the aurora that was visible on that day. This is a phenomenon of rare occurrence in Utah, and consisted of a brilliant luminosity in the northern heavens ranging in color from a brilliant red to a pale green, with white bands extending almost to the zenith that pulsated rapidly back and forth in a most mysterious and bewitching manner. The origin of this phenomenon is but little understood, but seems to be of electro-magnetic character, as generally the telegraph service is seriously impaired when auroras are brightest. This was the case in the present instance, the service in and out of Salt Lake City having been badly crippled on that day. From an artistic standpoint the sight presented to the view was of marvelous beauty, and it must ever be a matter of great regret that a phenomenon at once so strange, weird and beautiful should be of such rare occurrence.

CLIMATOLOGICAL DATA FOR UTAH, OCTOBER, 1903.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches				Sky				Prevailing direction of wind		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Normal	Actual	Corrected to 24 hours	Total snowfall in inches	Days with all day of snow	Number of days	Number of days cloudy	Number of days			
NORTHERN.																				
Alpine	Utah	1,000	7	50.2	+2.0	77	8	13	31	47	0.95	+0.03	0.08	T	2	23	6	2	n.	T. B. Whitby.
Blue Creek	Box Elder	4,387	27	60.6	+12.3	72	9	13	27	1.58	+0.34	0.98	...	...	...	...	...	...	...	Agent So. Pacific Co.
Carbine	Box Elder	4,240	33	60.3	+8.9	73	10	24	29	1.03	+0.08	1.07	...	...	...	...	...	...	...	W. E. Johnson.
Carson, Wyo.	Uinta	6,989	13	43.3	+1.1	70	9	12	30	17	0.87	...	...	...	...	...	...	...	...	Frank Tucker.
Carson, Wyo.	Dravis	4,207	3	78.8	+1.2	78	10	23	31	30	1.44	+0.8	0.87	...	...	...	...	...	...	Charles Royan.
Carson, Wyo.	Uinta	8,000	15	40.2	+0.6	75	9	15	30	11	0.48	...	...	...	...	...	...	...	...	Post Surgeon.
Carson, Wyo.	Wasatch	8,000	10	45.3	+0.4	78	9	12	30	51	0.79	...	...	...	...	...	...	...	...	John Crook.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	William Brewer.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Lars Petersen.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Agent So. Pacific Co.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	James Dryden.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	J. S. Moffat.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Fred. Yeates.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	T. R. G. Welch.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	John Adams.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Enoch Farr.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	W. H. Chevers.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	J. H. Hance.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Weather Bureau.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Agent So. Pacific Co.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Francis W. Bailey.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Section Center.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Joseph Robbins.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Agent S. P. R. R.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	1. J. Elkington.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	Richard Veltman.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	William Chatterton.
Carson, Wyo.	Summit	5,300	1	47.6	+2.0	80	9	12	31	52	0.97	...	...	...	...	...	...	...	...	T. J. Tingey.
Averages				50.2	+2.0					1.11	0.18				4	22	3	6	nw.	
MIDDLE.																				
Black Rock	Millard	5,802	3	48.1	-2.0	77	8	13	31	47	0.95	+0.03	0.08	T	2	23	6	2	n.	Willard Burbank.
Black Rock	Juab	4,387	1	49.3	...	76	10	10	30	51	0.18	...	...	...	...	...	...	...	...	E. E. Edwards.
Black Rock	Emery	4,387	4	48.6	-0.3	83	19	12	31	58	0.78	+0.02	0.08	...	...	...	...	...	...	James Jeffs.
Black Rock	Grand	4,387	11	48.6	-0.3	83	19	12	31	58	0.78	+0.02	0.08	...	...	...	...	...	...	H. T. Matthews.
Black Rock	Millard	4,341	9	53.5	+4.2	82	18	10	31	60	0.72	+0.23	0.50	...	...	...	...	...	...	S. W. Western.
Black Rock	Emery	6,260	3	48.8	+1.5	73	16	20	31	42	1.03	+1.03	0.81	...	...	...	...	...	...	H. C. Wickman.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	J. J. Starley.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	E. M. Smith.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Walter James.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Weather Bureau.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	J. T. Farrer, Jr.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Owen Sheridan.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	William Brown.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	W. M. Harmon.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	D. C. Walkey.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Web Greene.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Caleb Tanner.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	J. M. Lauritzen.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Thomas Memmott.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	Ag't Rio Grande R. R.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	J. H. Mitchell.
Black Rock	Millard	5,100	13	53.6	+1.5	81	18	24	31	45	0.23	+0.21	0.78	...	...	...	...	...	...	E. E. Branch.
Averages				50.2	+1.3					0.72	+0.20				2	21	4	3	n.	
SOUTHERN.																				
Aneth	San Juan	4,800	3	51.8	+1.8	85	9	28	28	17	0.10	-0.19	0.06	...	...	...	...	...	...	H. R. Antes.
Aneth	Garfield	4,800	2	44.8	...	77	18	7	31	49	0.06	...	...	...	...	...	...	...	...	H. J. McCullough.
Aneth	Garfield	5,700	3	50.6	+2.0	72	19	25	31	45	0.41	+0.03	0.41	...	...	...	...	...	...	W. G. Bleak.
Aneth	Beaver	7,318	9	52.0	+2.1	79	8	20	31	51	0.85	+0.23	0.85	...	...	...	...	...	...	S. N. Slaughter.
Aneth	Wayne	4,600	8	46.9	+4.9	78	7	18	31	51	0.27	+0.30	0.15	...	...	...	...	...	...	J. C. White.
Aneth	Wayne	5,800	7	49.2	+1.3	73	9	21	31	40	0.52	+0.15	0.25	...	...	...	...	...	...	Henry Cullum.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	F. W. Gibbons.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	Z. K. Judd.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	Mrs. G. W. Carpenter.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	Michael Hansen.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	B. R. Transeau.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	G. T. Henry.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	R. W. Dotson.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	Henry Crouse.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	Weather Bureau.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	John Bailey.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	James Connell.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	J. H. Harrison.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	W. H. Schock.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	J. W. Seaman.
Aneth	Garfield	3,000	4	61.6	+0.9	91	8	32	31	48	0.52	...	...	...	...	...	...	...	...	J. G. Bleak.
Aneth	Garfield	3,000																		

Figures following name of station indicate the number of days missing from the record, and when accompanied by letters indicate division of tables to which figures apply, e. g., T4 - four days missing from temperature record.

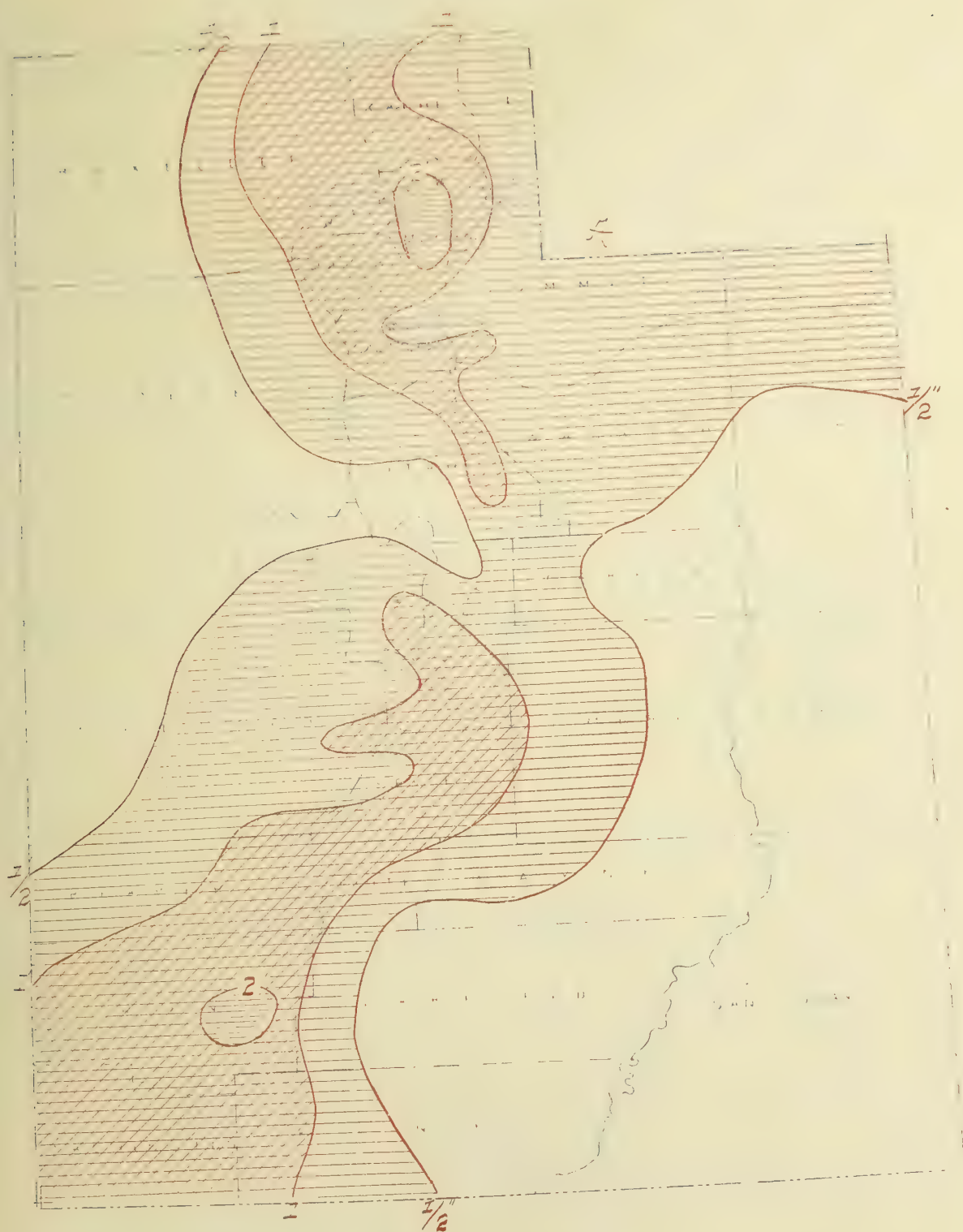
All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m., and 9 p. m. readings. ‡ Thermometers not supplied by U. S. Weather Bureau.

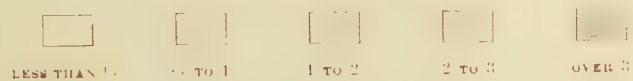
SOLUTIONS.

	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	4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TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, OCTOBER, 1903.

Sections and stations.	Day of month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine.....	.65									.95																						1.60	
Blue Creek.....	1.00	.50								.05																						1.55	
Corinne.....	.15	1.07	.41																													1.63	
Evanston, Wyo.....	.18	.22	.08		.06	.08				.01	.15																					0.87	
Farmington.....	.20	.57	.52		.13					.02																				.09		1.44	
Ft. Duchesne.....	.32	.16			T.																											0.48	
Heber.....	.12	.40	.04		.03	.07				*	.10																					0.76	
Henefer.....	.05	.31	.12		.11	.15				.03	.20																		T.			0.97	
Huntsville.....	.31	1.36	.07		.30					.09																			T.			2.13	
Kelton.....																																	
Logan.....			.79		T.	.22				T.																				T.		1.01	
Meadowville.....	T.	.20	.20		T.	.50				T.																				T.		0.90	
Millville.....	.45	.42	T.	.03	.25	.06				.06																				.01		1.28	
Morgan.....	.03	.28	1.90	.12	.24					.02	.13																			T.		2.72	
Oakley, Idaho.....				.10	.15	.05					.25																					0.55	
Ogden No. I.....	.53	.63	.27	.10	.14	T.																										1.57	
Ogden No. II.....		.30																														0.30	
Park City.....	.30	.26	.02		.18	.11				.08	.15																			T.		1.70	
Pocatello, Idaho.....	.08	.01	T.	.04	.08	.10				.01	.01																			T.		0.33	
Promontory.....	.50	.50			.25																											1.25	
Saltair Beach.....	.02	.62	.03		.05	.01				.11																						0.84	
Salt Lake City.....	.02	.59	.02		.10	T.				T.	.07																			.01		0.81	
Snowville.....	.08	.16		.04	.06																											0.34	
Terrace.....	T.	T.		T.	T.																											T.	
Tooele.....	.15	.55			.04					.03																						0.77	
Vernal.....	.30	.32	.24		T.					.02																						0.88	
Weston, Idaho.....	.17	.90	.02		.04	.05				.09																						1.27	
Woodruff.....																																	
MIDDLE.																																	
Black Rock.....	.68	.27			T.																											0.95	
Callao.....	.18			T.																												0.18	
Castle Dale.....	.05	.68	.05																													0.78	
Cisco.....																																	
Deseret.....	.50	.22								T.																						0.72	
Emery.....	.22	.22	.81							T.																						1.03	
Fillmore.....	.78	.19	.69							T.																						1.06	
Garrison.....	.15	.08																														0.23	
Government Creek.....	.18	.17								.05																						0.40	
Grand Junction, Colo.....	.03	T.	T.								.01																			.01	.02	0.07	
Green River.....																																0.00	
Ibapah.....	.15	.16																														0.31	
Levan.....	.81	.68								.07																						1.56	
Manti.....	.42	.57	.22																													1.21	
Mount Nebo.....	.30	.08																														0.38	
Mount Pleasant.....	.38	.11									.09																					0.58	
Provo.....	.11	.31	.02		.01	T.					.10	T.																				0.55	
Richfield.....	.70	.10								.03																						0.83	
Scipio.....	.46	.20	.01							T.																						0.67	
Soldier Summit.....																																	
Thistle.....	.80	.33								.30																							1.43
Wellington.....																																	
SOUTHERN.																																	
Aneth.....			.06																													0.06	
Coyoto.....	T.	.06																														0.06	
Escalante.....	.41																															0.41	
Frisco.....	*	.85																														0.85	
Gies.....	.15	.12																														0.27	
Grover (near).....	.20	.25	.07																													0.52	
Hite.....	T.	T.																														T.	
Kanab.....		.80																														0.80	
La Sal.....																																	
Loa.....	.40	.45																														0.85	
Lund.....	1.20	.40																														1.60	
Marysville (near).....	.30	1.03	.01								.02																					1.35	
Minersville.....																																	
Moab.....	.09	.17																												.02		0.28	
Modena.....	1.03	.34	.02																													1.39	
Monticello.....																																0.00	
Monticello.....																																2.03	
Parowan.....	.49	1.52	.02																													1.75	
Pinto.....	.12	.63																														1.28	
Plateau.....	.38	.79	.01								.10																					1.09	
Ranch.....	1.09																															1.86	
St. George.....	.33	1.53																										</					

551.0
U.S.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

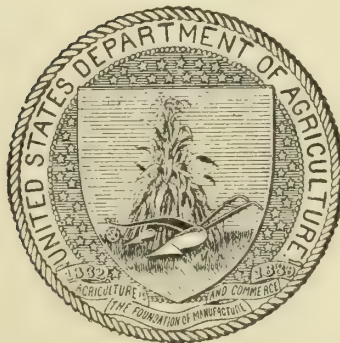
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

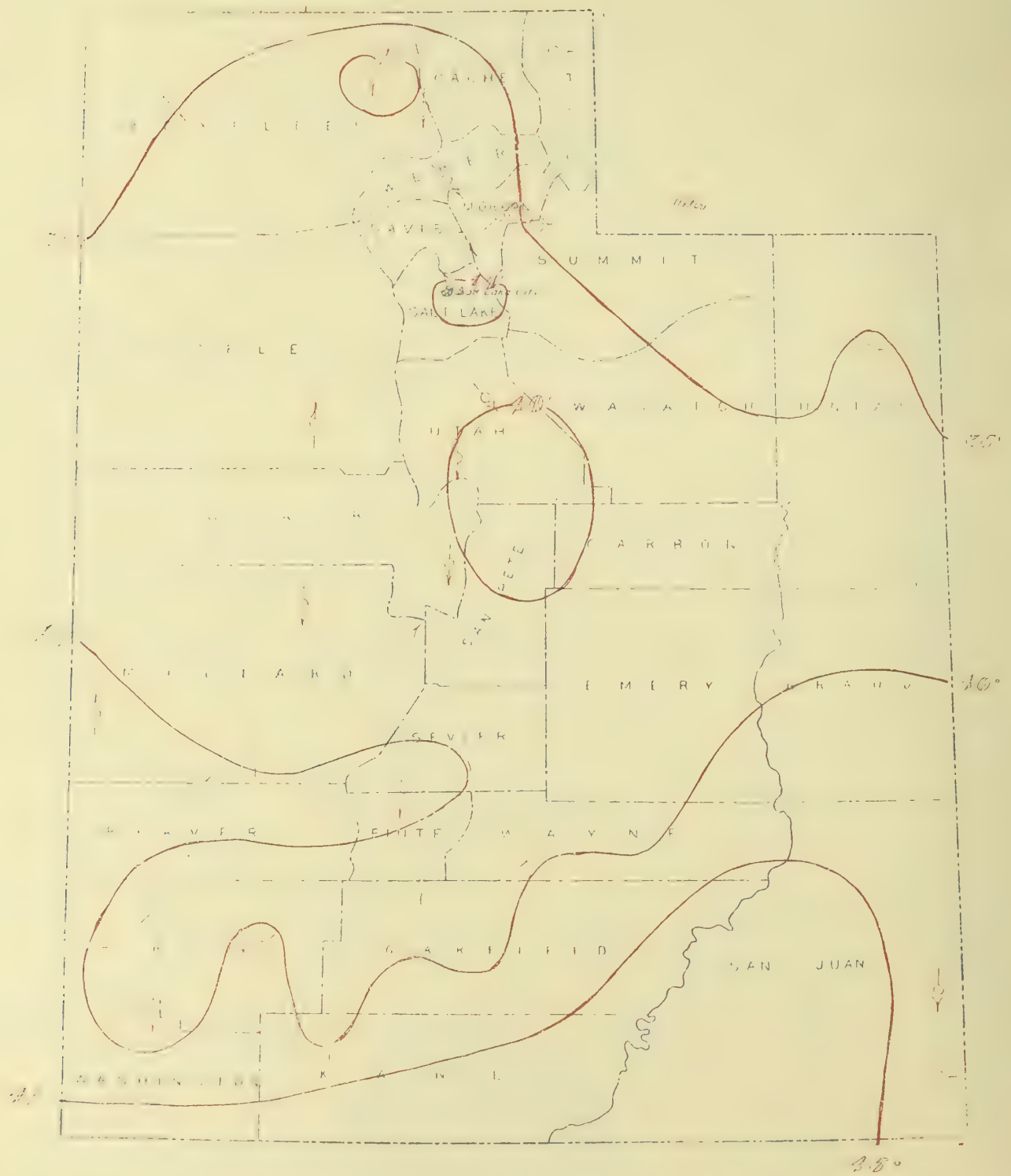
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
1903.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VI.

SALT LAKE CITY, UTAH.

No. 1.

WEATHER.

Clear and warm weather prevailed throughout the entire section during the first week. On the 8th a storm area made its appearance over the northern half of the section and persisted from that date until the 16th, during which period stormy conditions prevailed. Considerable precipitation in the form of rain and moist snow occurred, the mountains and more elevated valleys of this region particularly being covered to a considerable depth with snow. High wind velocities were quite frequent during this period, notably at the Section Center, where the climax was reached on the evening of the 12th instant with a maximum velocity of 57 miles per hour. This was accompanied by heavy rainfall, and the damage to various interests in the city was considerable. The storm area did not, however, penetrate to the southern half of the section, and so with regard to rainfall markedly opposite conditions prevailed in that region (scarcely any precipitation whatever being recorded). About the 16th a decided fall in temperature occurred and for several days abnormally cold weather prevailed, the minimum temperatures in many localities in the more elevated districts in the northeastern portion of the section falling considerably below the zero point. The atmosphere gradually warmed up after this cold spell and during the remainder of the month warm weather with almost cloudless skies prevailed in all parts of the section.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 56 stations, was 39.1° , or 0.9° above the normal. The highest local monthly mean was 49.8° at Kanab; the lowest for the full record of 30 days was 32.0° at Meadowville. The highest temperature recorded was 80° at Thistle on the 1st; the lowest was 19° below zero at Henefer on the 17th; giving an absolute range for the section of 99° . The greatest daily range for any station was 64° at Wellington on the 1st. The highest temperatures of the month were generally recorded on the 7th; and the lowest on the 17th.

PRECIPITATION.

The average precipitation, determined from the reports of 59 stations, was 0.73 inch, or 0.63 inch below the normal. A marked disparity in the distribution of the rainfall occurred over the different portions of the section. The northern half of the sec-

tion received an amount far in excess of the normal, while the southern half received next to none, there being no less than 19 stations throughout the middle and southern portions that did not receive a single drop of rain or flake of snow, while at seven other stations the precipitation was less than an appreciable amount. The U. S. Weather Bureau station at Modena, in Iron county, reports the month as being the driest on record, and this is confirmed by a large number of other observers in that part of the section. The greatest monthly amount was 3.34 inches at Millville, situated, of course, in the northern portion. The greatest rainfall in any 24 consecutive hours was 1.70 inches at Meadowville on the 13th. Considerable snowfall occurred over the northern half of the section, especially in the more elevated districts, several stations recording a total amount of over 3 feet.

WIND AND WEATHER.

The prevailing direction of the wind was north. The total number of miles recorded at Salt Lake City was 3,896; at Modena, 6,943; at Grand Junction, Colo., 2,913; and at Pocatello, Idaho, 7,164. The maximum velocity at Salt Lake City was 57 miles per hour from the northwest on the 12th; at Modena, 42 miles from the southwest on the 11th; at Grand Junction, Colo., 25 miles from the west on the 8th; and at Pocatello, Idaho, 36 miles from the southwest on the 7th.

The average number of clear days during the month was 15; partly cloudy days, 8; cloudy days, 7. Determined from the automatic sunshine record, Salt Lake City had 56 per cent; Grand Junction, Colo., 78 per cent; and Pocatello, Idaho, 50 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 68 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 64 per cent, the lowest observed reading being 20 per cent on the 7th; at Modena, 51 per cent, the lowest observed reading being 18 per cent on the 9th; at Grand Junction, Colo., 54 per cent, the lowest observed reading being 28 per cent on the 2nd; at Pocatello, Idaho, 60 per cent, the lowest observed reading being 29 per cent on the 7th.

There was an average of 2 days with .01 inch or more precipitation; 5 over the northern, 2 over the middle and none over the southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence.)

Corona, solar.—Lund, 18.

Aurora.—St. George, 4, 5.

Halo, lunar. Marysvale, 5.

Sleet.—Henefer, 8, 11; Huntsville, 11–13.

Hail.—Henefer, 11; Levan, 15; Morgan, 8.

Coronae, lunar.—Lund, 1, 23; Marysvale, 22, 23.

Earthquake.—Marysvale, 29; Pinto, 4, 23; St. George, 6, 17.

Dense fog.—Callao, 27–29; Deseret, 24, 25, 29; Garrison, 25, 29; Government Creek, 12, 28, 29; Henefer, 25–27; Provo, 26–30; Saltair, 27–30; Salt Lake City, 30; Terrace, 27–30; Tooele City, 28, 29.

High winds.—Aneth, 11; Black Rock, 7, 9–14; Deseret, 7, 10–14; Emery, 8, 12; Frisco, 14; Garrison, 7, 9, 11–14, 19; Government Creek, 7, 14; Grover, 8, 9, 16; Henefer, 6, 8, 14; Lund, 7–14; Marysvale, 11, 12, 14; Mount Nebo, 7, 11, 12, 14; Modena, 11; Salt Lake City, 7–12, 14–16, 23; Scipio, 7, 9–12; Terrace, 8, 10; Vernal, 8, 10.

OBSERVERS' REMARKS.

Alpine. Much fall plowing was done during the month. Stock of all kinds are generally in good condition.—Thos. B. Whitby.

Deseret.—The weather was very favorable for the performance of fall work.—S. W. Western.

Emery.—The month was very dry. The weather generally was very pleasant. H. C. Wickman.

Garrison.—The past month was very dry, cold and windy.—E. M. Smith.

Government Creek.—The fore part of the month was very cold, but the latter part was abnormally warm.—Walter James.

Heber.—The fore part of the month was rather stormy, but the latter part was more seasonal. The temperatures were usually too low to admit of fall plowing.—John Crook.

Henefer.—The second week of the month was the wettest week on record; the snow has melted and the streets are very muddy. Fall planting was considerably delayed.—Wm. Brewer.

Huntsville.—The month was mild, except for the second week, which was quite stormy.—Lars Petersen.

Marysville.—The month was clear and cold; creeks have been frozen over since the middle of the month.—Geo. T. Henry.

Moab.—The unusually low temperature on the 18th destroyed many winter apples that had not been gathered.—Henry Crouse.

Mt. Nebo.—This has been a pleasant month, without rain or snow. More cloudy weather was experienced, however, than in any November in the past 5 years.—D. C. Walkey.

Pinto.—A very pleasant month for outdoor work.—J. H. Harrison.

St. George.—There is no snow yet in this locality, even on the mountains. Wheat sowing is in progress in the southern portion of the county.—James G. Bleak.

Woodruff.—The month was very remarkable for fine weather. Thomas Ashton.

CROP CONDITIONS.

Throughout the northern half of the section the abundant moisture of the second week of the month exercised a most beneficial effect on fall grain, aiding materially in its germination and growth. The form of the precipitation, moist snow and rain, was peculiarly adapted to a thorough moistening of the subsoil as well as of the surface soil, and in consequence the ground was in fine condition. Fall grain, especially rye, was coming up to good stands, and the prospects were indeed promising. Reverse conditions, however, prevailed throughout the southern half of the section, where the lack of sufficient moisture and the abnormal cold of the middle of the month had rendered the ground dry and hard. Even in this region, however, the heavy rains of the previous month had permeated the ground to a considerable depth, and underneath the hard upper crust the soil was moist. In this portion of the section, excepting in the extreme southern counties, very little fall grain is sown, as the ground generally lies bare during the winter, and growing grain has not the requisite protection. In the milder climate of Washington and Kane counties, periods of extreme cold are rare, and in these localities considerable winter grain is sown. Favorable weather has hitherto prevailed in that region, and the growing grain is in a thriving condition.

CORRECTION TO SEPTEMBER REPORT.

Page 5, Black Rock, mean temperature recorded 57.3°, should be 57.4°; Fillmore, mean temperature recorded 64.8°, should be 64.6°. Page 6, Black Rock, mean maximum temperature recorded 74.4°, should be 74.5°; Fillmore, mean minimum temperature recorded 46.7°, should be 46.3°.

GREAT SALT LAKE.

The stage of the water on November 1 was 3 feet and 1 inch on November 15th, 3 feet, and on December 1, 2 feet and 11 inches below the zero of the gage.

PERSONAL AND GENERAL.

Through the courtesy of our Senators and Representatives in Congress, who have placed a large number of franks for the Year Book of 1903 at the disposal of this office, we are enabled to distribute this valuable publication of the Department among a much greater number of our observers and correspondents than heretofore.

Comparative Temperature and Precipitation Data for November during the past thirteen years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	41.1	80	6	0.21
1892	36.7	76	— 6	0.30
1893	34.4	86	—16	0.83
1894	40.0	82	— 9	0.05
1895	32.7	75	—24	1.47
1896	33.4	78	—20	1.23
1897	39.3	78	— 1	0.96
1898	35.7	82	8	0.96
1899	40.5	82	— 3	0.70
1900	40.1	80	1	1.51
1901	41.3	76	0	0.29
1902	36.9	81	—13	1.78
1903	39.1	80	—19	0.73

THE PREVALENCE OF FOG DURING THE WINTER SEASON.

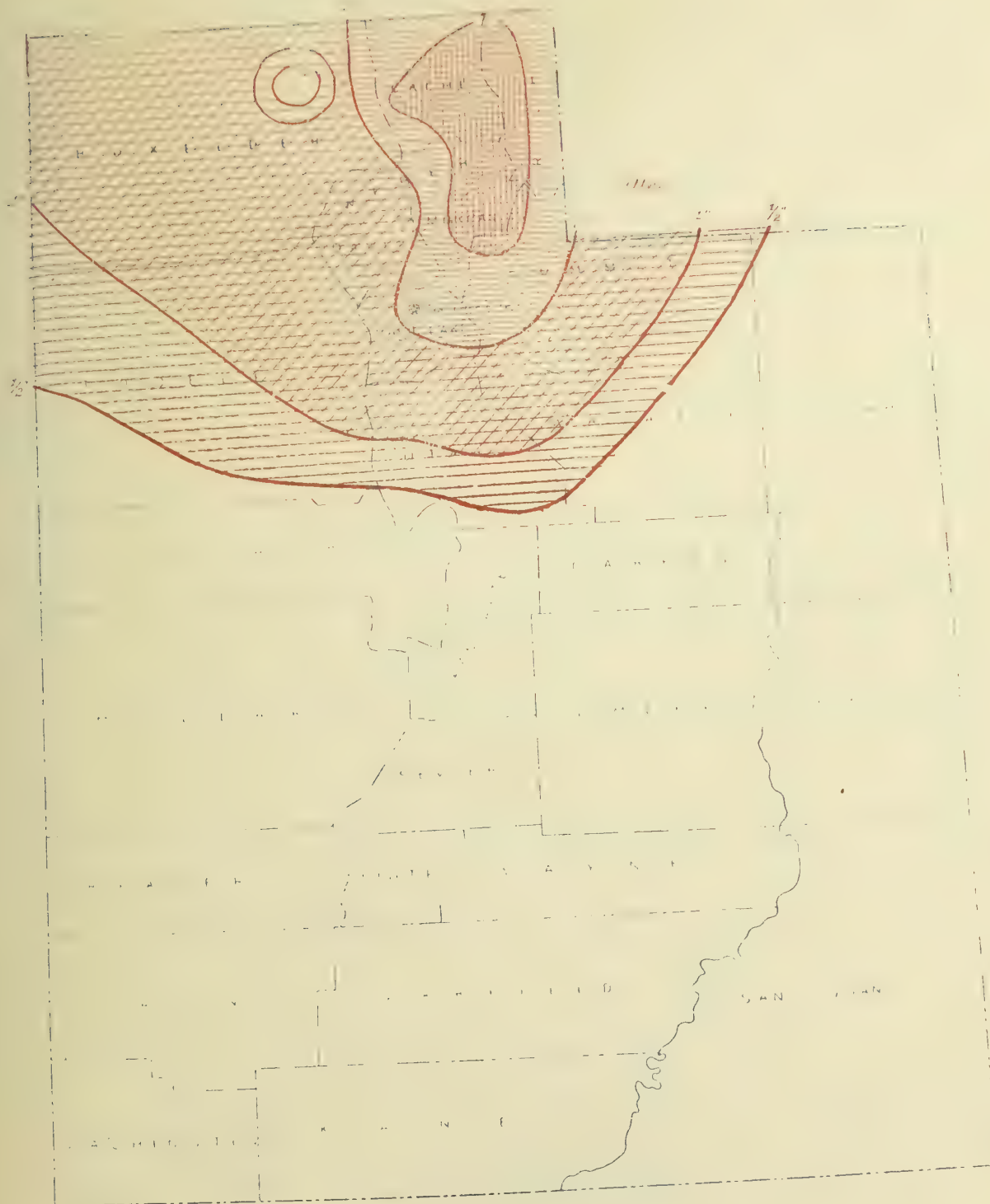
Our readers have doubtless noted the frequency of fog since the cold weather set in. This phenomenon is a peculiarity of mountainous regions during the winter, and is especially frequent in valleys surrounded entirely or partially by high mountain ranges that are at this season of the year covered either continually or intermittently with snow. The air in the evening is cooled below the dew point through contact with the cold ground or the snow on the adjacent peaks, and condensation is a result. In the morning the sun gradually warms the atmosphere above the dew point and the fog is dissipated. The fog layer is generally very thin, in many cases not extending much above the house tops. This was particularly the case with the dense fog that prevailed at the Section Center on the last day of the month, when on the streets below objects at a distance of even 100 feet were scarcely discernible, while on the roof of the building occupied by the central office the clear blue sky could be distinctly seen. Reliable observers on the adjacent hills state that where they stood, the sun was shining brightly, while below the valley was shrouded with a thick mantle of fog. The fog referred to was so thick that traffic was seriously impeded and many collisions occurred, one in particular between two street cars resulting in serious injury to several passengers, besides causing other damage.

CLIMATOLOGICAL DATA FOR UTAH, NOVEMBER, 1903.

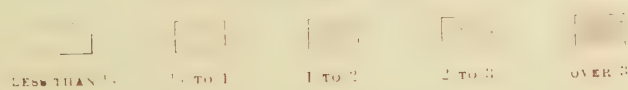
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Prevailing direction of wind.	Observations.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelting.	Days with 40 inch or more.			Number clear days.	Number partly cloudy days.	Number cloudy days.
NORTHERN.																				
Alpine.	Utah.	4,900	7	41.5	+2.8	75	*1	10	17	31	1.34	-0.31	1.10	.....	3	.....	.....	.....	.....	T. B. Whitby.
Box Elder.	Box Elder.	4,887	28	41.5	+2.8	75	*1	10	17	31	1.34	-0.31	1.10	.....	3	.....	.....	.....	.....	Agent So. Pacific Co.
Box Elder.	Box Elder.	4,819	33	38.7	+1.4	71	1	17	19	53	2.03	+0.03	1.32	0.0	1	9	2	15	n.	W. E. Johnson.
Evansville.	Utah.	9,959	8	31.1	-0.4	62	4	-10	17	40	1.02	+0.51	0.53	8.8	1	11	11	8	sw.	Frank Tucker.
Hamington.	Ty.	4,207	3	30.1	-3.7	68	8	13	17	35	1.86	+0.10	0.80	7.6	.....	13	1	11	nw.	Charles Boylin.
Heber.	Wasatch.	5,000	15	31.8	-1.8	64	14	1	17	40	0.00	-0.24	0.00	.....	0	30	0	0	.....	Post Surgeon.
Heber.	Wasatch.	5,600	10	30.8	+0.9	67	5	6	17	55	1.90	+0.28	1.00	1.0	6	18	5	7	s.	John Crook.
Heber.	Summit.	5,301	4	35.2	+0.3	72	7	-10	17	58	3.27	+1.37	0.80	20.0	8	12	7	11	w.	William Brewer.
Heber.	Summit.	5,301	8	.....	.....	.....	.....	.....	.....	.....	2.30	-0.06	0.78	12.0	7	10	11	9	.....	Lars Petersen.
Heber.	Weber.	5,100	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.
Heber.	Box Elder.	4,230	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	James Dryden.
Heber.	Cache.	4,507	12	35.3	+2.6	67	7	5	18	31	2.29	+1.15	1.10	17.1	5	12	7	11	w.	J. S. Moffat.
Heber.	Rich.	6,200	4	32.0	-3.0	62	7	.....	.....	.....	3.31	+1.52	1.12	.....	6	.....	.....	.....	.....	Fred. Yeates.
Heber.	Cache.	4,818	8	.....	.....	.....	.....	.....	.....	.....	3.01	.....	0.99	14.0	7	14	10	6	sw.	T. R. G. Welch.
Heber.	Morgan.	.....	.....	35.3	.....	71	8	14	17	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Adams.
Heber.	Cassia.	4,191	10	.....	.....	.....	.....	.....	.....	.....	1.71	.....	0.60	.....	7	12	6	12	nw.	Enoch Farr.
Heber.	Weber.	4,310	2	38.8	.....	68	7	12	17	31	0.55	-0.66	0.30	5.5	3	9	7	14	ne.	W. H. Chevers.
Heber.	Weber.	4,310	33	38.6	+0.7	50	21	26	17	38	3.20	+2.16	0.60	21.7	7	.....	.....	.....	.....	J. H. Hance.
Heber.	Summit.	6,840	6	37.8	+3.1	64	7	0	17	38	2.17	.....	0.60	.....	11	10	9	11	e.	Weather Bureau.
Heber.	Paineck.	4,488	3	38.9	+5.9	65	.....	.....	.....	.....	1.08	-0.21	0.70	11.7	.....	.....	.....	.....	.....	Agent So. Pacific Co.
Heber.	Box Elder.	4,913	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.54	6.5	7	.....	.....	.....	.....	Francis W. Bailey.
Heber.	Salt Lake.	.....	.....	39.4	.....	69	7	17	17	53	2.21	+0.85	0.98	7.0	8	14	5	11	se.	Section Center.
Heber.	Salt Lake.	4,306	29	42.0	+2.2	70	7	17	17	54	1.87	+1.02	0.00	.....	7	13	7	10	s.	Joseph Robbins.
Heber.	Box Elder.	4,300	13	33.4	-4.1	64	*7	2	17	45	1.30	+0.95	0.60	13.0	3	8	9	13	nw.	Agent S. P. R. R.
Heber.	Box Elder.	4,550	33	35.1	-0.3	62	*7	10	17	31	1.01	-0.05	0.81	.....	0	13	4	13	.....	I. J. Elkington.
Heber.	Tooele.	1,000	.....	39.4	-0.8	68	*7	5	18	42	0.18	-0.52	0.18	T.	1	18	10	2	w.	Richard Veltman.
Heber.	Utah.	5,056	8	35.6	+0.4	64	*7	3	*17	45	2.50	+0.97	0.70	23.0	11	10	5	15	n.	William Chatterton.
Heber.	Oneida.	4,400	5	33.4	-2.9	67	7	.....	.....	.....	0.05	-0.53	0.05	0.5	1	1	8	5	.....	Thos. Ashton.
Heber.	Rich.	6,500	6	25.1	-6.0	65	25	-15	18	47	0.05	.....	.....	.....	5	13	6	11	W-NW	
Averages				37.0	-0.2						1.81	+0.17	.....	7.0	5	13	6	11	W-NW	
MIDDLE.																				
Black Rock.	Millard.	5,802	3	39.4	+1.4	70	22	5	17	49	0.10	-0.01	0.10	1.0	1	13	9	8	n.	Willard Burbank.
Calho.	Juab.	.....	1	35.9	.....	74	7	1	17	54	0.16	.....	0.10	.....	2	11	18	1	.....	E. E. Edwards.
Castle Dale.	Emery.	5,500	4	31.8	-3.5	70	2	-3	*17	55	T.	-0.64	T.	.....	0	22	8	0	.....	James Jeffs.
Cisco.	Grand.	4,385	11	.....	.....	.....	.....	.....	.....	.....	T.	-0.40	T.	.....	0	15	7	8	n.	H. T. Matthews.
Deseret.	Millard.	4,514	9	37.4	+0.1	73	7	-2	17	60	0.00	-0.14	0.00	.....	0	5	16	9	n.	S. W. Western.
Emery.	Emery.	4,260	3	38.1	+2.1	65	1	0	18	63	0.00	-0.92	0.00	.....	0	.....	.....	.....	.....	H. C. Wickman.
Fillmore—T 14.	Millard.	5,100	13	42.0	+1.2	71	20	9	17	40	0.00	-0.95	0.00	.....	0	.....	.....	.....	.....	J. J. Starley.
Garrison.	Millard.	.....	.....	40.8	.....	70	6	2	17	47	T.	.....	T.	.....	0	20	9	1	s.	E. M. Smith.
Gov't Creek.	Tooele.	5,277	3	39.8	+0.6	66	7	9	17	33	0.54	-0.02	0.23	2.5	4	18	8	4	s.	Walter James.
Grand June, Colo.	Mesa.	4,008	12	40.3	+0.2	72	14	12	17	30	0.61	-0.62	0.01	T.	1	10	10	4	nw.	Weather Bureau.
Green River.	Emery.	4,080	6	39.8	-0.2	78	8	5	19	58	0.06	-0.15	0.00	.....	0	18	1	11	.....	J. T. Farrer, Jr.
Idapah.	Tooele.	.....	.....	36.3	.....	71	7	-6	10	59	0.37	.....	0.17	2.0	3	.....	.....	.....	.....	Owen Sheridan.
Levan.	Juab.	5,010	13	38.4	+1.8	65	7	8	17	39	0.24	-0.79	0.11	2.3	3	16	9	7	n.	William Brown.
Nanti.	San Pete.	5,575	9	38.1	+0.6	70	8	7	10	44	0.20	-0.50	0.20	2.0	1	14	9	7	n.	W. M. Harmon.
Mount Nebo.	Utah.	4,050	2	39.8	.....	70	7	7	17	40	T.	.....	0.20	2.0	1	10	20	0	.....	D. C. Walkey.
Mount Ple'sant.	San Pete.	5,859	11	40.6	+1.4	69	*7	8	16	41	0.20	-0.73	0.20	2.0	1	10	14	5	nw.	Web Greene.
Provo.	Utah.	4,552	11	39.8	+1.0	73	7	3	17	50	1.14	+0.11	0.57	3.4	6	11	14	5	nw.	Caleb Tanner.
Richfield.	Sevier.	5,323	13	.....	.....	.....	.....	.....	.....	.....	0.48	-0.80	0.29	3.0	4	15	5	10	sw.	J. M. Lauritzen.
Scipio.	Millard.	5,290	8	38.9	+1.8	71	7	-1	16	60	0.48	-0.80	0.29	3.0	4	15	5	10	sw.	Thomas Memmott.
Soldier Summit.	Utah.	7,174	11	.....	.....	.....	.....	.....	.....	.....	0.80	-0.12	0.30	5.0	3	23	0	7	.....	Ag't Rio Grande R. R.
Thistle.	Utah.	5,075	11	43.6	+7.5	80	1	19	16	56	0.80	-0.12	0.30	5.0	3	23	0	7	.....	J. H. Mitchell.
Wellington.	Carbon.	5,540	4	37.2	+0.7	78	1	1	17	64	0.09	-0.80	0.00	.....	0	11	17	2	.....	E. E. Branch.
Ave. ages				39.0	+2.6						0.21	-0.56	.....	1.3	2	15	10	5	n.	
SOUTHERN.																				
Aneth.	San Juan.	4,800	3	42.0	-2.0	70	14	12	18	44	0.00	-0.79	0.00	.....	0	22	2	6	w.	H. R. Antes.
Coyote—T 4.	Garfield.	.....	.....	37.6	.....	69	3	0	*17	62	0.00	.....	0.00	.....	0	17	1	8	s.	H. J. McCullough.
Escuante.	Garfield.	5,706	3	39.8	-0.1	65	7	12	18	45	0.00	-0.76	0.00	.....	0	10	19	1	.....	W. G. Bleak.
Empco.	Beaver.	7,280	9	43.4	+3.2	64	6	15	17	33	0.02	-0.52	0.02	.....	1	17	7	6	sw.	S. N. Slaughter.
Giles.	Wayne.	4,000	8	37.0	-1.7	65	14	6	*17	44	0.00	-0.29	0.00	.....	0	22	7	1	.....	J. C. White.
Grover (near).	Wayne.	5,800	7	40.4	+3.5	71	28	6	18	61	0.00	-0.78	0.00	.....	0	22	5	3	ne.	Henry Cullum.
Hite.	Garfield.	3,000	4	48.0	0	73	11	20	23	43	0.00	.....	0.60	.....	0	22	8	0	.....	F. W. Gibbons.
Kanab—T 4.	Fane.	4,925	3	49.8	.....	69	8	25	*13	39	0.00	.....	0.00	.....	0	16	1	11	.....	Z. K. Judd.
La Sal.	San Juan.	7,000	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. G. W. Carpenter.
Loa.	Wayne.	7,000	11	35.8	+4.4	65	7	2	18	48	0.00	-0.40	0.00	.....	0	19	4	7	ne.	Michael Hansen.
Lund.	Iron.	5,092	3	38.8	.....	65	6	14	18	42	0.00	.....	0.00	.....	0	18	8	4	n.	B. R. Transeau.
Marysville (near).	Piute.	6,180	4	40.6	+2.6	70	6	5	17	52	T.	-0.98	T.	.....	0	.....	.....	.....	.....	G. T. Henry.
Minersville.	Beaver.	5,070	6	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	.....	0	12	16	2	.....	R. W. Dotson.
Moab.	Grand.	4,000	14	42.4	+1.6	75	*14	10	18	39	0.00	-0.59	0.00	.....	0	15	11	4	w.	Henry Crouse.
Modena.	Iron.	5,379	3	40.2	.....	68	22	13												

foldface figures indicate temperatures below zero,

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

65.7
DAV

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR DECEMBER 1903.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

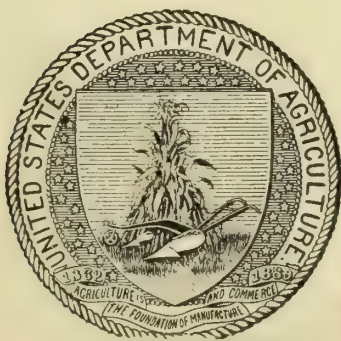
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

BY

R. J. HYATT,
SECTION DIRECTOR



A map of the San Juan Mountains region in Colorado, showing county boundaries and names. The map includes labels for Garfield, Kane, Coconino, Mohave, Navajo, and San Juan counties. It also shows the location of the San Juan Mountains, the San Juan River, and the town of Durango. The map is drawn on a grid of latitude and longitude lines.

U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VI.

SALT LAKE CITY, UTAH.

No. 2.

WEATHER.

The weather conditions during the month presented the same contrast between the northern and southern halves of the section that prevailed during the previous month. In the northern half the usual amount of winter cloudiness prevailed, with considerable precipitation in the form of snow, although the amount was still considerably below the normal. In the southern half abnormally clear weather prevailed, with precipitation either entirely lacking or far below the average. Throughout the northern part the weather was very pleasant during the fore part of the month, with the days rather warm and the nights cool. From the 11th to the 24th generally unsettled weather prevailed, and during this period considerable snow fell, especially in Box Elder, Cache and Morgan counties, although the other portions of this region did not fare so well, Summit, Rich and Weber counties particularly reporting a shortage of snowfall. In the first-named counties the average total fall has been from 6 to 12 inches, with from 6 to 10 inches on the ground at the close of the month, while in the others the snow is not more than 2 or 3 inches, and in many localities the ground is entirely bare. During the last week of the month clear, settled weather prevailed, with very light winds and cold, frosty nights, the temperatures in the northern counties and more elevated regions falling considerably below the zero point. Fogs were frequent in some localities in this part of the section, at the Section Center there being no less than nine foggy days recorded, many of these fogs being so dense that even objects as close as 100 feet were scarcely visible. Throughout the southern half of the section the clear and dry weather of the preceding month continued to prevail during the present month. Except in portions of Beaver county, scarcely any precipitation whatever occurred, and owing to the long-continued drought the ground is very dry and dusty.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 55 stations, was 26.4° , or 1.3° below the normal. The highest local monthly mean was 34.6° at Hite; the lowest was 18.2° at Ft. Duchesne. The highest temperature recorded was 76° at Tropic on the 1st; the lowest was 26° below zero at Plateau on the 27th; giving an absolute range for the section of 102° . The greatest daily range for any station was 73° at Castle Dale on the 4th. The highest temperatures of the month were gener-

ally recorded on the 1st; and the lowest generally occurred during the closing days of the month.

PRECIPITATION.

The average precipitation, determined from the reports of 60 stations, was 0.37 inch, or 0.66 inch below the normal. This was the least amount recorded during a period extending over 13 years. The deficiency extended to all portions of the section, being most marked over the southern portion, where over extensive areas no precipitation whatever occurred. The greatest monthly amount was 1.45 inches at Park City. The greatest rainfall in any 24 consecutive hours was 1.00 inch at Plateau on the 23rd. Whatever snowfall occurred fell over the northern half of the section, scarcely any being reported south of Utah county.

WIND AND WEATHER.

The prevailing direction of the wind was north. The total number of miles recorded at Salt Lake City was 2,777; at Modena, 6,113; at Grand Junction, Colo., 2,513; and at Pocatello, Idaho, 5,528. The maximum velocity at Salt Lake City was 25 miles per hour from the northwest on the 23rd; at Modena, 39 miles from the southwest on the 18th; at Grand Junction, Colo., 17 miles from the north on the 23rd; and at Pocatello, Idaho, 33 miles from the southwest on the 2nd.

The average number of clear days during the month was 21; partly cloudy days, 4; cloudy days, 6. Determined from the automatic sunshine record, Salt Lake City had 60 per cent; Grand Junction, Colo., 86 per cent; and Pocatello, Idaho, 67 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 95 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 75 per cent, the lowest observed reading being 47 per cent on the 13th; at Modena, 58 per cent, the lowest observed reading being 20 per cent on the 16th; at Grand Junction, Colo., 58 per cent, the lowest observed reading being 26 per cent on the 3rd; at Pocatello, Idaho, 65 per cent, the lowest observed reading being 40 per cent on the 2nd.

There was an average of 2 days with .01 inch or more precipitation; 4 over the northern, 2 over the middle and 1 over the southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence.)

Sleet. - Henefer, 11.

Earthquake. - Marysvale, 12.

Corona, lunar. - Marysvale, 31.

Hail. Alpine, 17; Black Rock, 11; Levan, 11.

High winds. - Deseret, 17, 23; Garrison, 16, 17, 31; Grover, 12; Lund, 1, 3, 31; Meadowville, 2; Modena, 18; Salt Lake City, 23; Scipio, 10.

Fog. - Cailao, 1, 2, 15-17, 28-30; Coyoto, 14; Deseret, 14, 27-29; Farmington, 16, 26; Garrison, 2, 14, 22; Government Creek, 2; Henefer, 1, 13, 25; Huntsville, 15, 16, 27, 28; Lund, 18, 19; Meadowville, 10, 25-31; Salt Lake City, 1, 2, 7, 8, 14, 16, 17, 29, 30; Tooele, 1, 16.

OBSERVERS' REMARKS.

Alpine. The weather was dry and fine. Thos. B. Whitby.

Black Rock. The month was exceptionally clear and the winds were very light. Willard Burbank.

Deseret. A very dry and pleasant month. The soil is quite dry and the water in the Sevier river is low. S. W. Western.

Emery. The month was absolutely dry, not a trace of precipitation having fallen. The days generally were pleasant, but the nights were cold. H. C. Wickman.

Ft. Duchesne.—Snow has fallen several days in the mountains north of this station, but none has fallen here.—Cecil W. Taylor.

Grover.—A dry month. Frequent winds occurred, which almost amounted to dust storms.—Henry Cullum.

Henefer.—The month was quite cold. Precipitation was below the average.—William Brewer.

Huntsville.—The first 10 days of the month were clear and fine; the two weeks following, however, were cloudy and stormy. The last week was clear and cold.—Lars Petersen.

Marysville.—The average depth of snow in the mountains on the last day of the month was 4 inches. As nearly all of the snow on which irrigation depends falls in the latter part of January and during February and March, no estimate can be formed of the probable water supply.—Geo. T. Henry.

Meadowville.—This was an exceptionally fine month, though an unusual amount of foggy weather was experienced.—J. S. Moffatt.

Morgan.—The snow that fell during the month was light and dry as a rule.—T. R. G. Welch.

Mount Nebo.—December was a very pleasant month, with less precipitation and more sunshine than any December since 1897.—D. C. Walkey.

Park City.—The snowfall was unusually light.—Jas. H. Hance.

Parowan.—There has very little snow fallen in the mountains so far this winter. The prospects for irrigation water for next season are poor at present.—James Connell.

St. George.—No snow has fallen so far this winter.—James G. Bleak.

Woodruff.—The month of December was cold, with very little precipitation.—Thomas Ashton.

CROP CONDITIONS.

The reports as to the condition of fall grain are generally reassuring, and no damage from the cold, frosty nights is feared. The grain is generally up, and in most localities covered to a greater or less depth with a protecting layer of snow. In the middle portion the lack of this protecting mantle, combined with the low temperatures, has caused some damage to the growing grain. In the southern portion very little winter grain is sown, and so no great damage has resulted, but the long-continued drought in this portion of the section is having a blighting effect on ranges, and stock are not in thriving condition. The unusual shortage in the amount of snowfall, the deficiency of which becomes more marked as we travel southward, is having a very disquieting effect and is causing some well-grounded fears that the supply of water next spring will be insufficient to meet the demand for irrigation water.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF DECEMBER, 1903.

The first snow of the season fell during the month of November over the northern half of the section. The fall during the month was particularly heavy over portions of Cache, Rich and Morgan counties, but practically no snow whatever fell over the portion of the section south of Utah county. The same conditions prevailed to a great extent during the month of December only the northern tier of counties securing an average amount of snowfall. To the southward less and less snowfall occurred until in the southern portion of the section practically no precipitation whatever occurred.

Only in the northern part of the Great Salt Lake Watershed is the depth of the snow in the mountains equal to or greater than last year. In the southern part of this watershed and in the Sevier and Green and Colorado Rivers Watersheds the depth is uniformly less, in the last named being decidedly below the amount last year.

Excepting over the northern counties, the prospects for next season's supply of water are at the present time not very bright and unless there is a marked excess in the amount of snowfall during January and February, more especially over the southern portion of the section, there will be a serious shortage in the supply of irrigation water.

PERSONAL AND GENERAL.

During the latter part of the month the Director had the pleasure of visiting the voluntary observers at Cisco, Green River, Wellington, Soldier Summit, Thistle and Provo.

Mr. Enoch Farr, voluntary observer at Ogden; Prof. J. H. Hance, voluntary observer at Park City; and Mr. Walter James, voluntary observer at Government Creek, were callers at the central office during the course of the month.

GREAT SALT LAKE.

The stage of the water on December 1 was 2 feet and 11 inches, and on December 15 and January 1, 2 feet and 10 inches below the zero of the gauge.

Comparative Temperature and Precipitation Data for December during the past thirteen years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	26.0	71	—19	1.42
1892	25.0	66	—19	1.27
1893	31.1	70	—19	1.30
1894	26.3	64	—17	1.94
1895	21.0	64	—24	0.78
1896	31.0	66	3	0.46
1897	22.7	68	—19	1.16
1898	23.1	72	—17	0.63
1899	25.2	74	—26	0.95
1900	30.6	68	—27	0.14
1901	29.0	71	—18	0.81
1902	27.0	66	—25	0.89
1903	26.4	76	—26	0.37

CORRECTIONS TO OCTOBER REPORT.

Page 3: Under the heading of temperature, second line, mean temperature of the section recorded 50.3, or 1.3 above the normal, should read 50.1°, or 0.8° above the normal.

Page 5: Corinne—Mean temperature recorded 61.2, should be 50.6; departure from the normal recorded +9.8, should be 0.9. Average for northern portion recorded 50.2, should be 49.6; departure from the normal recorded +2.0, should be 1.4. Average for the section recorded 50.3, should be 50.1; departure from the normal recorded +1.3, should be +0.8.

Page 6: Corinne—Mean minimum temperature recorded 51.9, should be 33.6.

CLIMATOLOGICAL DATA FOR UTAH, DECEMBER, 1903.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit					Precipitation, in inches					Sky.					Observations.	
				Mean.	Departure from the normal.	Highest.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Totals calculated monthly.	Days with any high cloud.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.		
NORTHERN.																				
Alpine.	Utah.	4,900.	7.								0.15.	0.15.	0.20.	4.5.	3.				T. B. Whitby.	
Box Elder.	Box Elder.	4,387.	25.	25.7.	-3.0.	45.	*22.	0.	*25.	45.	0.20.	-1.70.	0.40.	2.0.	2.	22.	0.	9.	8.	Agent So. Pacific Co.
Crumme-T.	Box Elder.	4,240.	33.	28.6.	-3.4.	49.	2.	1.	27.	30.	0.00.	-1.01.	0.30.	0.0.	6.	8.	0.	23.	0.	W. H. Johnson.
Elkton, Wyo.	Uinta.	6,950.	8.	22.9.	+3.2.	49.	1.	5.	20.	49.	0.30.	-1.11.	0.40.	2.5.	4.	18.	4.	9.	sw.	Frank Tucker.
Elkton, Wyo.	DAVIS.	1,207.	3.	27.0.	-5.1.	45.	*1.	5.	27.	24.	1.37.	-0.11.	0.57.	13.2.	4.	20.	4.	7.	nw.	Charles Boylin.
Elkton, Wyo.	Utah.	5,000.	15.	18.2.	-0.7.	44.	21.	5.	27.	43.	0.00.	-1.58.	0.00.		0.	31.	9.	0.		Post Surgeon.
Heber.	Wasatch.	5,600.	10.	21.6.	-0.5.	50.	1.	2.	39.	19.	1.33.	-0.20.	0.80.	13.3.	6.	19.	1.	11.	n.	John Crook.
Heber.	Summit.	5,301.	4.	22.4.	-2.5.	54.	1.	10.	28.	47.	1.23.	-0.01.	0.45.	14.0.	7.	16.	6.	6.	n.	William Brewer.
Heber.	Weber.	5,000.	8.								1.23.	-0.15.	0.42.	14.0.	1.	17.	3.	11.	n.	Lars Petersen.
Heber.	Box Elder.	4,230.	25.								0.00.	-0.70.	0.00.		0.	15.	2.	11.	n.	Agent So. Pacific Co.
Heber.	CACHE.	4,507.	12.																	James Dryden.
Heber.	Rich.	6,200.	4.	23.8.	-2.8.	43.	*1.	9.	30.	22.	0.20.	0.00.	0.20.	2.0.	1.	15.	2.	14.	W.	J. S. Moffat.
Heber.	CACHE.	4,518.	8.								0.70.	-0.20.	0.20.		6.					Fred Yeates.
Heber.	Morgan.			21.6.		50.	8.	10.	27.	43.	1.03.		0.31.	13.6.	7.	17.	7.	7.		T. R. G. Welch.
Oakley, Idaho.	Cassia.	4,191.	10.																	John Adams.
Ogden, Idaho.	Weber.	4,310.	2.	26.8.		40.	21.	9.	30.	21.	0.05.	-0.70.	0.35.	14.5.	4.	19.	3.	9.	nw.	Enoch Farr.
Ogden, Idaho.	Weber.	4,310.	33.	29.7.	-2.0.	40.	1.	12.	27.	0.95.	-0.70.	0.35.	9.5.	4.	19.	0.	12.	0.		W. H. Cheevers.
Park City.	Summit.	6,846.	6.	27.2.	-1.1.	50.	1.	8.	*4.	28.	1.45.	-0.10.	0.50.	14.5.	7.					J. H. Hance.
Pocatello, Idaho.	Bannock.	4,488.	3.	26.8.	+0.8.	52.	1.	1.	27.	33.	1.01.	-0.92.	0.34.	8.7.	6.	18.	6.	7.	e.	Weather Bureau.
Promontory.	Box Elder.	4,913.	53.	21.8.	-4.4.	51.	*13.	0.	*26.	0.25.	0.03.	0.20.	2.5.	2.	18.	0.	13.	0.	n.	Agent So. Pacific Co.
Salt Lake.	Salt Lake.			27.0.		42.	13.	8.	30.	21.	0.43.	-0.28.	0.22.	5.5.	0.	16.	5.	10.	se.	Francis W. Bailey.
Salt Lake City.	Salt Lake.	4,300.	29.	29.0.	-3.3.	45.	17.	14.	27.	23.	0.51.	-1.13.	0.22.	5.5.	0.	16.	5.	10.	se.	Section Center.
Snowville.	Box Elder.	4,300.	13.	24.8.	-1.4.	40.	7.	4.	*6.	40.	1.00.	-0.14.	0.50.	10.0.	3.	14.	6.	14.	n.	Joseph Robbins.
Terrace.	Box Elder.	4,550.	33.	26.3.	-0.7.	45.	*2.	8.	*27.	30.	T.	-0.66.	T.	T.	0.	15.	4.	12.	nw.	Agent S. P. R. R.
Tooele.	Tooele.	4,000.	8.	28.2.	-2.0.	46.	20.	11.	29.	24.	0.95.	-0.61.	0.65.		5.	19.	5.	7.	8-se.	L. J. Elkington.
Vernal.	Uintah.	5,050.	8.																	Richard Veltman.
Weston, Idaho.	Oneida.	4,400.	5.	22.4.	-2.0.	41.	2.	0.	*25.	32.	0.54.	-0.21.	0.28.	6.0.	4.	19.	1.	11.	s.	William Chatterton.
Woodruff-T4.	Rich.	9,500.	6.	19.8.	+0.1.	67.	1.	9.	28.	40.	T.	-1.04.	T.		0.	18.	8.	1.		Thos. Ashton.
Averages.				21.9.	-2.3.						0.60.	-0.61.		7.3.	4.	18.	3.	10.	n.	
MIDDLE.																				
Black Rock.	Millard.	5,802.	3.	25.2.	-2.0.	52.	1.	2.	*3.	47.	0.18.	-0.21.	0.10.	1.8.	2.	23.	6.	2.	n-s.	Willard Burbank.
Callao.	Utah.		1.	24.1.		48.	*14.	4.	7.	13.	0.07.	-0.07.	0.17.	1.5.	1.	23.	8.	0.		E. E. Edwards.
Castle Gate-T3.	Emery.	5,500.	4.	22.4.	-3.1.	63.	4.	-15.	5.	73.	0.00.	-0.09.	0.10.		0.	17.	11.			James Jeffs.
Cisco.	Grand.	4,385.	11.																	H. T. Matthews.
Deseret.	Millard.	4,541.	9.	25.4.	+0.2.	57.	*2.	4.	7.	53.	0.05.	-0.50.	0.05.	0.5.	1.	23.	3.	5.	n.	S. W. Western.
Emery.	Emery.	6,200.	3.	25.8.	-2.5.	59.	1.	0.	5.	42.	0.00.	-0.00.	0.00.		0.	5.	8.	18.	n.	H. C. Wickman.
Fillmore.	Millard.	5,100.	13.	3.6.	+2.4.	62.	1.	8.	24.	40.	0.40.	-0.74.	0.32.		3.					J. J. Starley.
Garrison.	Millard.			27.0.		57.	*1.	0.	*4.	13.	T.		T.		0.	21.	7.	0.	s.	E. M. Smith.
Gov't Creek-T9.	Tooele.	5,277.	3.	26.4.	-3.8.	46.	1.	5.	24.	0.00.	-0.73.	0.03.	0.9.	4.	23.	5.	3.	8.	se.	Walter James.
Grand Junction, Colo.	Mesa.	4,008.	12.	27.6.	-0.1.	54.	1.	5.	17.	37.	0.02.	-0.39.	0.02.	0.3.	1.	23.	5.	3.	se.	Weather Bureau.
Green River.	Emery.	4,080.	6.	23.8.	-0.2.	53.	13.	0.	*11.	50.	0.61.	-0.21.	0.01.	0.1.	1.	21.	4.	6.		J. T. Farrer, Jr.
Hatch.	Tooele.			23.2.		55.	1.	10.	5.	51.	0.15.	-0.15.	0.15.	1.5.	1.	20.	6.	5.	n.	Owen Sheridan.
Heber.	Utah.	5,010.	13.	24.2.	-1.1.	49.	1.	2.	*26.	30.	0.52.	-1.29.	0.38.	5.4.	2.	24.	3.	4.	n.	William Brown.
Heber.	San Pete.	5,575.	9.	26.0.	0.	50.	*1.	5.	*5.	38.	0.40.	-0.25.	0.20.	4.0.	3.	16.	9.	6.	n.	W. M. Harmon.
Heber.	Utah.	4,050.	2.	27.6.		51.	17.	6.	*5.	33.	0.23.	-0.18.	0.00.		2.	21.	5.	5.	n.	D. C. Walkey.
Heber.	San Pete.	5,559.	11.	28.6.	+1.2.	52.	1.	7.	4.	35.	0.20.	-1.18.	0.10.	2.0.	2.	21.	9.	1.		Web Greene.
Heber.	Utah.	1,532.	11.	28.1.	-0.9.	46.	*1.	10.	4.	33.	0.49.	-1.60.	0.15.	2.7.	6.	15.	13.	3.	nw.	Caleb Tanner.
Heber.	Sevier.	5,323.	13.	26.1.	-2.8.	57.	16.	3.	5.	49.	0.04.	-0.72.	0.03.	0.4.	2.	23.	7.	1.		J. M. Lauritzen.
Heber.	Villard.	5,200.	8.	26.2.	+0.0.	60.	*1.	6.	26.	53.	0.33.	-0.54.	0.17.	3.0.	3.	17.	5.	9.	sw.	Thomas Memmott.
Heber.	Utah.	7,474.	11.																	Ag't Rio Grande R.R.
Heber.	Utah.	5,175.	11.	31.6.	+6.4.	55.	1.	2.	26.	42.	1.10.	-0.02.	0.60.	14.0.	4.	25.	0.	6.		J. H. Mitchell.
Heber.	Carbon.	5,540.	4.	24.0.	+3.9.	60.	*2.	4.	29.	50.	0.05.	-0.05.	0.03.	0.5.	2.	20.	6.	2.		E. E. Branch.
Averages.				26.2.	+0.9.						0.21.	-0.82.		2.3.	2.	20.	6.	5.	n.	
SOUTHERN.																				
Aneth.	San Juan.	4,800.	3.	27.4.	-4.3.	63.	1.	3.	7.	41.	0.02.	-0.35.	0.02.	0.2.	1.	25.	1.	2.	W.	H. R. Antes.
Coyote.	Garfield.		2.	24.2.	+0.6.	60.	1.	6.	*6.	53.	T.	-0.45.	0.00.	T.	0.	25.	1.	5.		H. J. McCullough.
Escuente.	Garfield.	5,700.	3.	28.1.		56.	3.	5.	8.	40.	0.00.	-0.00.	0.00.		0.	20.	7.	4.		W. G. Bleak.
Frederick.	Beaver.	7,338.	9.	33.0.	+4.7.	60.	1.	13.	4.	34.	0.17.	-0.31.	0.14.		2.	23.	5.	3.	n.	S. N. Slaughter.
Gies.	Wayne.	4,000.	8.	23.2.	-1.1.	55.	1.	1.	*6.	41.	T.	-0.14.	T.	T.	0.	27.	3.	1.		J. C. White.
Granger (near).	Wayne.	5,800.	7.	29.0.	+0.6.	66.	1.	5.	4.	40.	T.	-0.19.	T.	T.	0.	29.	2.	0.	W.	Henry Cullum.
Hite.	Garfield.	3,000.	4.	34.6.	-1.2.	62.	2.	14.	*7.	34.	0.00.	-0.10.	0.00.		0.	29.	2.	0.	n.	F. W. Gibbons.
Kanab.	Kane.	4,925.	3.			55.	1.				0.60.	-0.00.	0.00.		0.	26.		3.		Z. K. Judd.
La Sal.	San Juan.	7,000.	3.																	Mrs. G. W. Carpenter.
Lod.	Wayne.	7,000.	11.	23.6.	-1.3.	60.	1.	10.	11.	50.	0.00.	-0.29.	0.10.		0.					Michael Hansen.
Lund.	Iron.	5,092.	3.	27.1.		52.	13.	2.	7.	40.	T.		T.	T.	0.	25.	5.	1.	sw.	B. R. Transeau.
Marysville (near).	Piute.	6,180.	4.	27.8.	-0.7.	58.	1.	0.	6.	40.	0.52.	+0.08.	0.50.	1.4.	2.	21.	4.	6.	n.	G. T. Henry.
Minersville.	Reaver.	5,070.	6.																	R. W. Dotson.
Monticello.	Grand.	4,400.	14.	28.4.	-2.5.	58.	2.	6.	7.	37.	0.05.	-0.73.	0.05.	T.	1.	13.	16.	2.		Henry Crouse.
Monticello.	Iron.	5,479.	3.	27.7.		60.	1.	3.	6.	41.	0.00.	-0.00.	0.00.		0.	27.	3.	1.	W.	Weather Bureau.
Monticello.	San Juan.	7,280.	1.	29.2.		51.	12.	9.	*2.	39.	0.00.	-0.00.	0.00.		0.					John Bailey.
Parowan.	Iron.	5,070.	12.	27.2.	-1.2.	57.	23.	5.	*5.	38.	0.53.	-0.35.	0.30.	5.8.	3.	24.	5.	2.	n.	James Connell.
Pinto-T2.	Washington.	5,917.	6.	27.5.	+0.3.	62.	1.	9.	26.	52.	0.21.	-0.30.	0.19.		2.	22.	3.	5.	n.	J. H. Harrison.
Placitas.	Sevier.	7,000.	1.	22.8.		62.	1.	26.	27.	68.	1.22.	-1.00.	4.7.	4.	22.	5.	4.	n.		W. H. Schock.
Ranch.	Fane.	6,700.	2.	30.4.		68.	1.	2.	19.	47.	T.		T.	T.	0.	20.	4.	7.	n.	J. W. Seaman.
St. George.	Washington.	2,800.	17.	33.6.	-4.0.	68.	*1.	5.	8.	48.	0.17.	-0.86.	0.07.		1.	30.	1.	0.	se.	J. G. Bleak.
Tropic.	Garfield.	7,000.	6.	30.8.	+4.4.	70.	1.	0.	*6.</											

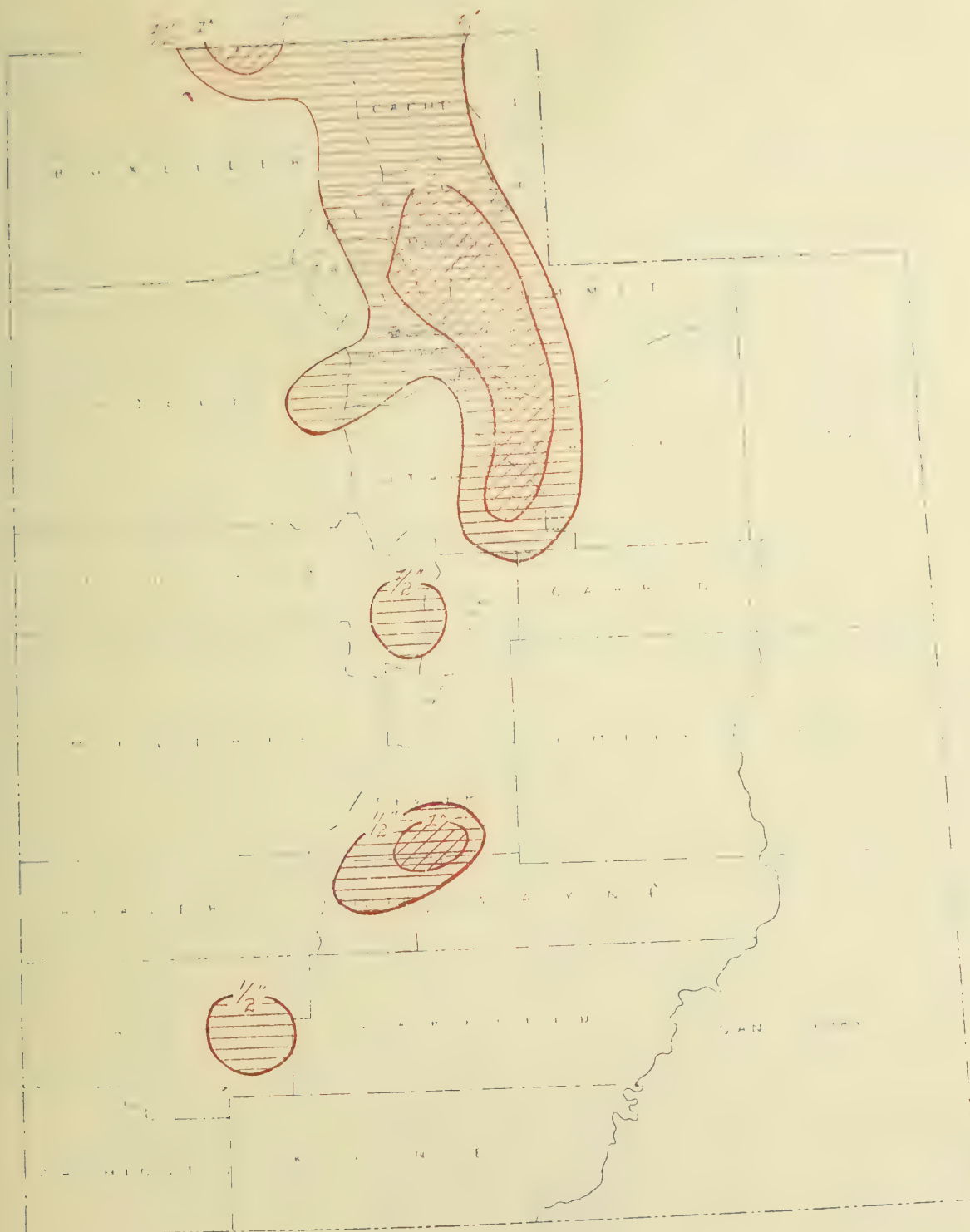
Figures following name of station indicate the number of days missing from the record, and when accompanied by letters indicate division of tables to which figure apply, e. g., T4—four days missing from temperature record.
All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.
* Also on subsequent dates. * Temperature data from 7 a. m., 2 p. m., and 9 p. m. readings. * Thermometers not supplied by U. S. Weather Bureau.

MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, DECEMBER, 1903.

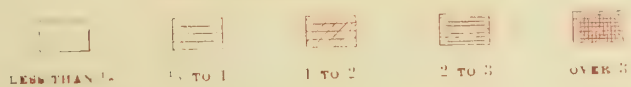
[illegible]

Boldface figures indicate temperatures below zero,

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1903

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

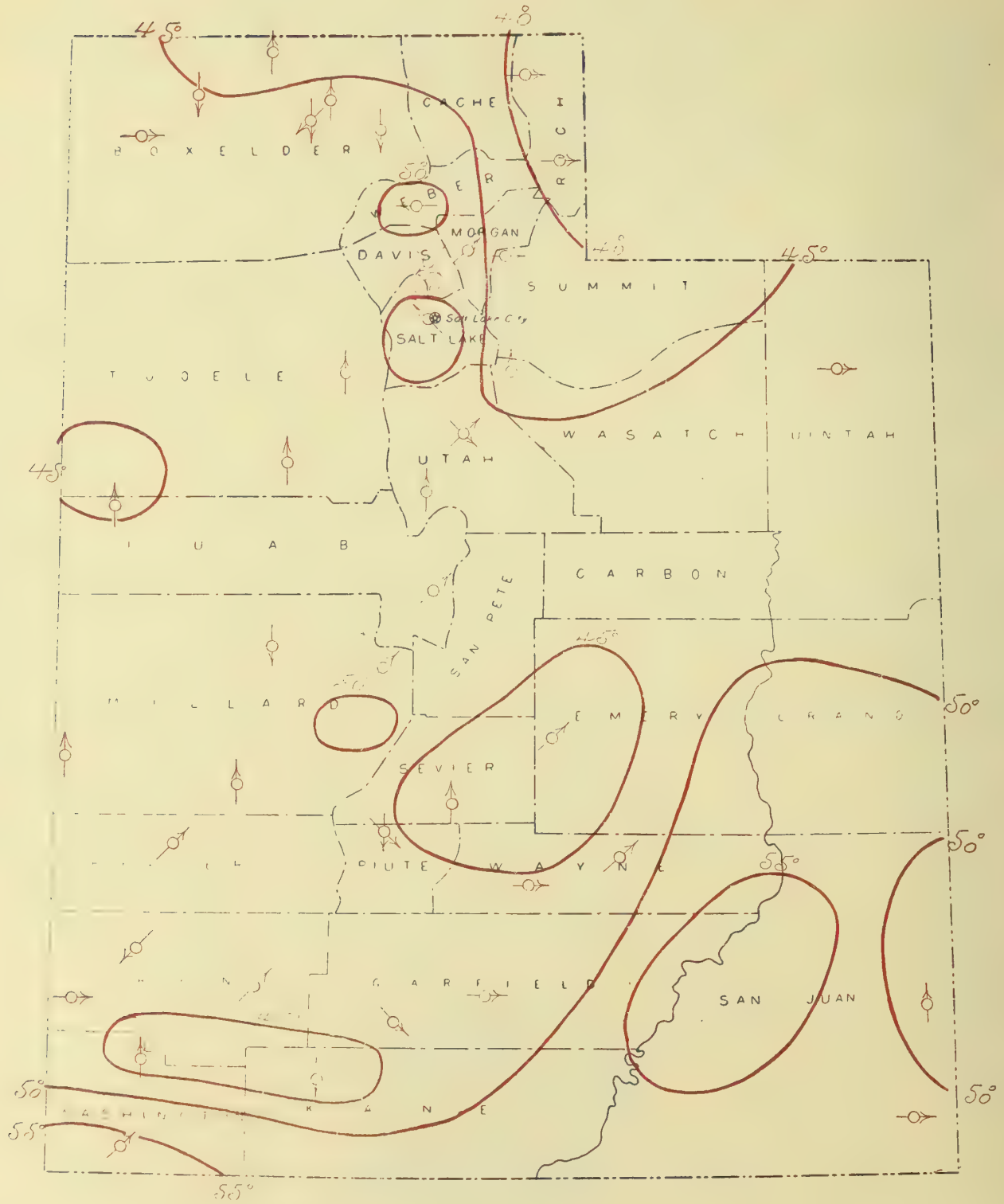
BY

R. J. HYATT,
SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MARCH 12, 1904

MONTHLY MEAN ISOTHERMS AND WINDS FOR THE YEAR 1903.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

ANNUAL SUMMARY No. 6.

THE WEATHER DURING THE YEAR 1903.

The weather conditions during the past year presented few normal features. February was excessively cold, the spring was remarkable for its unusual lateness, the summer was hot and dry, and the autumn was noteworthy for the frequency and density of fogs. The frigid weather of February gave the impression of extreme severity to the winter, but this was not altogether the case, as the other winter months did not vary much from the normal temperature.

During January there was a well-marked excess of rainfall over the northern counties, while a deficiency was general throughout the southern portion of the Section. February, however, showed a well-marked deficiency over all portions of the Section, and this condition continued to some extent throughout March, although the southern portion had a slight excess during this month, a very fortunate circumstance, as this region had been rather dry during the fore part of the winter. The precipitation throughout the winter was practically all in the form of snow, and the excessive cold of February enabled the snow to pack and drift with practically no loss from melting. March having about normal temperature, this condition continued throughout this month, so that at the opening of spring the snow was in splendid condition to withstand the approaching warm weather, and a good and steady supply of irrigation water was assured for some time to come. The spring was unusually backward, both April and May being abnormally cold, damp and raw, conditions that continued until the advent of the summer season. There were indeed some periods of bright, sunny weather, but they were not of very long duration. Severe frosts were frequent in April, but few occurred in May, the excessive cloudiness during that month retarding its formation. The precipitation during this season was in general above the normal amount, particularly during the month of May, when a decided excess occurred. The cold weather of April had retarded the melting of snow, and irrigation water was in consequence not plentiful, but this condition was relieved during May, when the heavy rains of that month assisted in melting the snow, besides materially replenishing the supply, so that at the close of May irrigation water was abundant and reservoirs were full to overflowing. The steady demands on the supply during June, combined with the deficiency of precipitation during that month, had materially reduced the visible supply of available water and a shortage was beginning to be felt. The usual warm weather, with abundant sunshine and insufficient precipitation, prevailed during the summer. During the early part of the season and again at the close comparatively low temperatures were recorded, especially in the more elevated districts of the section, and frosts were frequent in exposed localities, but they were light in character and little or no damage resulted to growing vegetation. The deficiency in precipitation was especially marked during the months of July and August, and this, taken in connection with the generally high temperatures, reduced the reservoirs to such a low stage that the work of irrigation was seriously hampered and in many districts completely abandoned. This condition was not materially relieved until September. Some destructive storms occurred during the summer and high winds were frequent, in many instances causing considerable damage. During the early part of September a maximum wind velocity of 60 miles per hour was recorded at the U. S. Weather Bureau at Modena, and it is probable that this velocity was duplicated and even exceeded at many other stations not equipped with recording instruments. The early fall was characterized by clear, balmy weather, the month of October being particularly noteworthy for its cloudless skies. Reverse conditions prevailed during the remainder of the season,

the months of November and December being cloudy to excess and characterized by the frequency of fogs that were of exceeding density and of long duration. The first general killing frosts in autumn did not occur until the latter end of October, a period much later than usual. Precipitation during October was slightly deficient over the northern half of the section and considerably in excess over the southern half, conditions that were exactly reversed during November, when the northern half received an amount far in excess of the normal, while the southern half received next to none. During December a deficiency in precipitation occurred over all portions of the section, but was most marked over the southern portion, where over extensive areas no precipitation whatever occurred. At the close of the year the prospects for next season's supply of irrigation water over the northern counties was in general not very bright, while over the southern portion the outlook was very far from being satisfactory.

CONDITION AND YIELD OF CROPS DURING THE YEAR 1903.

While the year can not be classed as one of great productiveness, yet the harvests were on the whole satisfactory. This, however, only applies to irrigated soil, as the yields from dry farms were, with some exceptions, rather disappointing, due principally to the prolonged drought and hot winds that prevailed during July and August. Spring wheat and oats yielded well, in many instances above expectations. Otherwise, however, with fall wheat, the yields of which were, in general, considerably below the average. This was mainly due to the undue severity of February, much of the crop having been found to be winter-killed in the spring. Fall rye and barley, on the other hand, withstood the rigorous winter well and yields of these crops were, in general, up to the average. Alfalfa, too, suffered considerably from the extreme cold, and much of it had to be ploughed up in the spring and sown to other crops. This staple, however, recovered to a great extent during the spring, and the yields of the first crop in most cases were up to the average. The second crop experienced unfavorable weather conditions during the summer, the hot winds and prolonged drought of July being especially injurious. In consequence, the yields in the northern part of the section were generally light. In other portions of the section, however, satisfactory returns were mostly reported. Beets on irrigated soil yielded well, but on dry farms the crop was not only light in quantity, but was inferior in quality due to lack of sufficient moisture. The harvest of corn, potatoes, and tomatoes were in the main satisfactory, although the first and last named suffered somewhat from frosts during the autumn, in addition to which corn was afflicted to some extent with cut worms that did some damage. Fruit was, on the whole, satisfactory both in quality and quantity. Ranges suffered considerable deterioration during the summer from the hot, dry winds, and stock did not thrive as well as could be wished. This condition was not materially relieved until the heavy rains of the early part of October. Ploughing for fall grain had begun in September, but at first little progress was made, owing to the dryness of the soil, but the heavy rains of the fore part of October relieved this condition, and by the close of that month fall wheat was all sown and in many localities was coming up to good stands. According to all reports, the acreage will be much larger than heretofore. At the close of the year this staple was in the main in satisfactory condition. In the northern counties it was covered to a greater or less depth with a protecting mantle of snow, but in the middle portion this protecting layer was to a great extent absent, and some little damage from the cold, frosty nights of December has resulted.

The following extracts from the monthly Climate and Crop Bulletins give in brief the condition of crops at the close of each month:

January—Very little farm work was done during the month. The heavy precipitation gave the ground a good soaking. Fall grain continues in fair condition, and most of it had a good covering of snow at the close of the month. Stock generally continues in fair condition.

February—The continued cold weather kept the ground frostlocked and prevented any farm work during the month. Fields were generally well covered with snow throughout the month and it is therefore not probable that any damage was done to fall grain by the low temperatures. The fruit crop also is thought to have passed through the month without suffering damage. The small amount of feed which remained on the ranges was covered with snow, and reports indicate that a large number of cattle and sheep perished from starvation and exposure.

March—Farm work during the month was generally limited to plowing, which began during the last decade. Fall grain and alfalfa

made a good start. The fruit buds passed through the winter without suffering damage, but were showing no signs of opening at the close of the month. The grass has started on the ranges, but feed is still scarce, and stock generally in poor condition.

April—The work of plowing and seeding was materially delayed by the unusually cold weather of the month. The seeding of spring grain was not fairly begun until the middle of the month, even then progress was slow, and the work was still in an unfinished state at the close of the month. At that time early-sown wheat was coming up well, but the late-sown had not yet appeared, as the cold ground prevented the proper germination of the seed. Fall wheat was at first thought to be in fair condition, but in time its real condition became more and more apparent, and at the close of the month the crop was, according to the statements of the great majority of correspondents, in poor condition. Alfalfa was making slow growth and its condition was generally below the average. Much of the crop was found to be winter-killed, and this was being plowed up and the ground sown to other crops. Fruit trees were slow in blossoming, a very fortunate circumstance, as the damage from the severe frosts during the month would otherwise have been far greater. Apricots were in the most advanced state, and this particular fruit is believed to have been severely injured. The planting of potatoes, gardens and sugar beets was under rapid headway at the close of the month. Some early-planted beets were coming up. Some damage to this crop by frost is reported. The cold weather of the month retarded the melting of the snow in the mountains, and irrigation water was not as plentiful as usual for that time of year.

May—During the fore part of the month farm work advanced rapidly, owing to the favorable weather conditions, and the sowing of small grain was practically completed by the middle of the month. Spring wheat made a fair growth, and the early-sown had come up to a good stand by the close of the month, with the late-sown just about coming up. Fall wheat will fall far short of an average crop, the stand being reported as very thin. A perceptible improvement in the crop was noted toward the close of the month, the late rains having exercised a very beneficial effect, especially on that portion planted in dry ground. Alfalfa will also be short, as much of it was winter-killed. What remained was in good condition and making a rapid growth. Cutting for hay was a matter of the near future. Early-sown beets progressed fairly well during the month and by the close were being thinned out. The germination of the late-sown in dry ground was considerably retarded during the fore part of the month by reason of the prevailing dry weather, but the heavy rains during the latter part had the effect of starting the seed and at the close the late-sown crop was coming up rapidly. Corn was practically all planted and was coming up. The crop had a poor color and in general its condition left much to be desired. Some slight improvement was, however, being noted. Oats were in good condition and making good growth. Potatoes and tomatoes had been planted, with the early-planted coming up and looking well. Fruit made fair progress during the month, and the prospects were bright for fair crops of all kinds of fruit. The damage by frost had been found to be greatly exaggerated. Grass was in good condition and making rapid growth. The range was affording ample sustenance for stock. The supply of irrigation water had been replenished by the heavy precipitation and the ground thoroughly soaked, so that conditions at the close of the month were extremely favorable for the rapid growth of all vegetation.

June—The clear, dry weather during the month produced contrary effects on growing vegetation according as to whether the soil was watered or not. Irrigated crops everywhere made rapid growth and were doing well, but dry land crops suffered greatly through lack of moisture, the deteriorating effects of which were becoming more apparent toward the close of the month, as the dryness continued. Fall wheat began to head early in the month and by the close the crop was so far advanced that cutting had begun in the extreme southern counties of the state. The stand is reported as being thin and a short crop only is expected. Spring wheat and oats advanced rapidly, and by the close of the month the condition and stand of these crops were very good and expectations of excellent yields were generally entertained. Alfalfa began to blossom early in the month. Cutting was begun about the second decade and continued under rapid headway during the remainder of the month, the weather being generally favorable. While in many localities yields have been disappointing, yet the majority of correspondents report the harvest as being up to the average. Sugar beets made good progress, and had already been thinned early in the month. The crop was in good condition generally and the prospects were bright for good yields. The condition of fruit was satisfactory, and indications point to fair crops of all kinds,

with the possible exception of apples. Early cherries began to ripen toward the close of the month, and some were being picked and marketed. Early potatoes came in bloom in the latter part of the month. Pastures were beginning to show the effects of the extreme dryness and were sadly in need of moisture. Water for irrigation was holding out well, but a steady decrease in the supply was being noted.

July—The generally warm and dry weather during the month exercised a beneficial effect on watered crops and favored their growth. The severe frosts of the fore part of the month had badly damaged tender vegetation, especially potatoes and tomatoes, over extensive areas throughout the section, but had no unfavorable effects on the hardier crops. The long continued drought had, however, produced a serious shortage in the supply of irrigation water, and reservoirs and ditches had fallen so low in many localities that the work of irrigation was seriously hampered, and in many instances entirely stopped, resulting in such cases in a serious deterioration of the crops. Grasshoppers were present in considerable numbers in Millard county, and were doing much damage to growing vegetation. The harvesting of fall wheat, rye and barley became general throughout the section early in the month and continued under rapid headway, the weather being particularly favorable for the work. The yield of fall wheat will fall far short of the average, while rye and barley, it is believed, will be up to the yield of former years. On dry farms the quality has been seriously impaired, owing to the shrinkage of the berry by the prolonged drought and hot winds. Spring wheat and oats were heading very fast and cutting was a matter of the near future. Both of these crops were in good condition and prospects for good yields of both quality and quantity were very favorable. The first crop of alfalfa had been gathered during the month, with generally average yields reported. A second crop had grown very rapidly and toward the close of the month began to bloom in many localities, and cutting was in progress. The crop suffered considerable deterioration from the hot winds and dry weather, and the yield will be below the average both in quality and quantity. The gathering of this staple had also been seriously delayed by the scattering of the harvested crop after being stacked, by the high winds that prevailed at different periods during the month. Sugar beets made good advancement and were in good condition where properly irrigated, but on dry farms and where the supply of water was insufficient, the quantity of the crop was badly impaired. Corn made a good growth, and by the close of the month the early-planted was silking and tasseling, and roasting ears were on the market. Fruit, particularly apricots, plums, peaches and apples, were ripening and were being marketed. The quality and quantity of all these varieties, excepting apples, appear to be satisfactory; apples, however, are reported as being small and of inferior quality. While potatoes and tomatoes were making a good growth, yet they did not appear to be thriving as well as could be wished. The ranges throughout the section were in poor condition and burning up from the combined effects of dry weather and hot sunshine.

August—The harvesting of fall grain continued under rapid headway during the month, and by the close was practically complete and thrashing was in rapid progress. The yield of fall wheat will fall short of the average both in quantity and quality, especially on dry farms where, because of the lack of necessary moisture the berry was somewhat shrunken. Spring wheat and oats were being cut with fair average yields mostly reported, though some few correspondents report the results of the harvests as being below earlier expectations. This, however, applies more particularly to dry land grain, which, as was the case with fall wheat, suffered severely for lack of water. The second crop of alfalfa had been all gathered and in many localities third crops were either being cut or were making rapid growth. Reports regarding the yield of the second crop were conflicting, but in general the harvests throughout the southern portion of the section appear to have been about average, while in the northern portion light yields were mostly reported. Corn made a rapid growth during the month, and was silking and tasseling. Cut worms were reported as causing injury in some few localities. Beets on irrigated soil were in satisfactory condition and making a good growth, but on dry farms the crop suffered considerable deterioration owing to the lack of sufficient moisture. Potatoes and tomatoes were being gathered and marketed with good average yields mostly reported. Fruit continued to ripen during the month and the returns were generally satisfactory. Ranges were generally in very poor condition and badly burned, owing to the combined effects of the hot sunshine and dry winds, and as a result stock was not thriving as well as could be wished.

September—The harvesting of small grain was practically completed about the middle of the month, with thrashing under rapid

(Continued on page 6)

CLIMATOLOGICAL DATA FOR YEAR 1903.

Stations.	Counties.	Elevation, feet.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.										Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of windy days.	Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.							
NORTHERN.																						
Alpine	Utah	4,900			103	Aug. 20	-11	Feb. 11	9	3.72	3.72	May	08	July	14.7	28	236	138	187			
Blue Creek	Box Elder	4,387	26		103	Aug. 20	-11	Feb. 11	26	7.72	2.50	May	09	Aug	31.8	15	129	31	115	n.		
Corinne	Box Elder	4,240	34	48.3	105	Aug. 2	-11	Feb. 11	34	14.27	3.62	Jan.	08	Aug	31.8	15	129	31	115	s. w.		
Granville, Wyo.	Uintah	6,359	8	38.5	90	Aug. 19	-34	Feb. 11	8	11.08	2.11	Jan.	05	Jan.	52.7	07	226	61	75	(1)		
Hammond	Davis	4,267	4	47.7	95	July 13	9	Feb. 15	4	17.32	3.76	Jan.	T.	July	74.0	55	213	75	75			
St. Duchesne	Uintah	5,000	16		98	June 29	-35	Feb. 15	16	1.19	1.19	July	00	Aug	8.5	25	210	721	71			
Heber	Wasatch	5,606	11	42.4	96	Aug. 19	-30	Feb. 15	11	13.32	2.17	Jan.	20	Aug	27.5	18	182	91	71	w.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n. w.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301	4	42.2	95	Aug. 19	-39	Feb. 11	4	16.02	3.25	Nov.	13	Aug	96.3	5	194	91	71	n.		
Intero	Summit	5,301																				

MONTHLY AND ANNUAL MEAN TEMPERATURES FOR THE YEAR 1903, WITH DEPARTURES FROM THE NORMAL.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Ann.
Sections and Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.
Northern.																									
Blue Creek.....	31.7	+ 6.6	23.6	- 6.7	42.8	+ 3.0	55.9	+ 4.1	60.5	- 1.6	70.8	- 0.6	75.0	- 5.4	82.0	+ 3.8	56.6	- 8.9	62.6	+12.3	41.5	+ 2.8	25.7	- 3.6	48.3
Corinne	28.0	+ 3.3	16.7	-13.4	39.5	+ 0.4	47.4	- 3.1	55.0	- 6.2	70.8	- 0.6	72.0	- 7.6	75.2	+ 0.8	60.0	- 5.6	50.6	- 0.9	38.7	+ 1.4	25.4	- 3.6	48.3
Evanston, Wyo.....	22.0	+ 1.5	9.1	-10.6	25.2	- 2.3	36.8	- 1.0	44.6	- 2.0	56.0	+ 1.1	59.4	- 2.6	61.7	+ 0.1	49.5	- 3.4	43.3	+ 1.1	31.4	+ 0.4	22.9	+ 3.2	38.5
Farmington	29.8	+ 1.2	19.1	-14.7	40.6	+ 3.6	47.4	+ 0.2	53.4	- 6.2	69.2	+ 2.6	70.9	- 3.1	71.2	+ 1.0	55.3	- 6.1	48.8	- 4.2	39.1	- 3.7	27.6	- 5.1	47.7
Ft. Duchesne.....	.....	.....	1.6	-17.6	28.3	- 7.1	44.3	- 3.8	52.4	- 4.7	65.2	- 0.7	68.5	- 2.7	69.0	- 0.5	57.0	- 4.0	46.2	- 0.6	31.8	- 1.8	18.2	- 0.7	.....
Heber	24.2	+ 2.8	10.7	-12.1	33.3	+ 0.7	42.7	- 1.2	49.6	- 3.2	61.8	+ 2.4	64.0	- 2.1	65.6	+ 0.9	53.4	- 1.8	45.3	+ 0.4	36.8	+ 0.9	21.6	- 1.9	42.4
Henefer	25.3	+ 1.7	9.0	-19.0	32.7	- 1.3	42.0	- 1.1	48.4	- 5.4	61.0	+ 1.4	64.6	+ 0.8	66.4	+ 3.5	52.8	+ 0.7	47.0	+ 2.9	35.2	+ 0.3	22.4	- 2.5	42.2
Kelton	22.8	- 0.3	.....	.....	35.2	- 5.0	44.6	- 5.6	52.6	- 7.9	68.2	- 2.3	72.4	- 5.9	75.8	- 0.5	56.9	- 4.9	.....	.....	.....	.....	.....	.....	.....
Logan	27.2	+ 3.0	13.3	-12.4	36.2	+ 2.4	45.8	- 0.9	52.5	- 2.7	67.0	+ 3.6	68.6	- 2.4	72.5	+ 2.0	58.2	- 2.9	50.4	+ 0.2	35.3	- 2.6	24.0	- 1.8	45.1
Meadowville.....	23.0	+ 0.3	6.4	-19.8	21.9	- 6.3	38.9	- 1.9	47.4	- 4.2	59.2	+ 2.4	62.8	- 2.8	65.6	+ 0.4	51.8	- 1.7	42.6	- 1.8	32.0	- 3.6	23.8	- 2.8	39.6
Morgan .....	.....	.....	12.3	.....	34.8	.....	43.0	.....	48.7	.....	62.2	.....	64.3	.....	66.7	.....	54.0	.....	46.3	.....	35.3	.....	21.6	.....	.....
Oakley, Idaho.....	.....	.....	20.0	-10.5	37.0	- 0.2	44.4	- 1.7	52.4	- 1.2	65.6	+ 1.5	66.1	- 5.1	.....	.....	55.9	- 2.7	51.9	+ 2.4	.....	.....	30.0	- 0.0	46.9
Ogden No. 1.....	28.7	.....	18.4	.....	39.6	.....	48.5	.....	55.4	.....	70.6	.....	74.6	.....	74.0	.....	58.8	.....	51.0	.....	38.8	.....	26.8	.....	48.8
Ogden No. II.....	32.0	+ 3.5	21.9	-11.1	43.3	+ 2.2	48.9	- 3.7	55.2	- 6.6	68.6	- 3.4	78.5	- 0.9	77.3	+ 0.6	60.3	- 5.4	49.6	- 2.2	38.6	- 0.7	29.7	- 2.0	50.3
Park City.....	27.1	+ 1.4	17.0	-11.0	33.0	+ 4.7	40.4	+ 2.2	50.2	+ 1.7	63.8	+ 5.6	67.8	+ 3.3	.....	.....	54.4	+ 0.6	46.8	+ 1.0	37.8	+ 3.1	27.2	- 1.1	.....
Pocatello, Idaho.....	28.1	+ 9.0	17.3	- 5.7	37.8	+ 3.5	43.8	- 3.0	51.8	- 2.5	65.3	+ 3.3	68.0	- 2.3	71.1	+ 1.5	56.9	- 3.6	50.4	+ 2.4	38.9	+ 5.9	26.8	+ 0.8	46.4
Promontory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.2	- 2.2	79.9	+ 5.0	65.6	+ 2.5	52.6	+ 3.8	.....	.....	21.8	- 4.4	.....
Saltair Beach.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.6	.....	72.5	.....	62.4	.....	51.4	.....	39.4	.....	27.6	.....	.....
Salt Lake City.....	32.0	+ 4.1	20.0	-12.9	42.3	+ 0.7	48.2	- 1.3	54.6	- 3.3	70.4	+ 3.5	73.6	- 1.7	76.6	+ 1.9	61.6	- 2.5	53.2	+ 0.8	42.0	+ 2.2	29.6	- 3.3	50.4
Snowville	24.6	+ 0.4	12.7	-14.3	35.3	- 0.3	42.5	- 3.9	49.6	- 6.1	64.4	+ 2.8	67.2	- 2.1	66.8	- 1.3	54.2	- 4.2	46.6	- 1.6	33.4	- 4.1	24.8	- 1.4	43.5
Terrace	26.4	+ 3.5	12.9	-16.9	37.9	- 2.9	46.8	- 3.7	54.5	- 6.2	68.8	- 3.5	70.6	- 10.1	73.3	- 4.4	59.3	- 6.3	49.4	- 3.3	35.4	- 0.3	26.3	- 0.7	46.8
Tooele	30.7	+ 1.5	20.3	-12.7	40.6	+ 2.3	46.8	- 1.9	54.0	- 2.2	69.0	+ 2.0	73.9	+ 0.3	77.1	+ 3.8	62.0	- 1.9	51.8	- 1.8	39.4	- 0.8	28.0	- 2.2	4.95
Vernal	18.6	- 1.2	10.0	-14.5	33.5	- 1.7	47.8	- 0.8	55.0	- 2.7	67.6	+ 0.8	70.0	- 1.6	70.6	+ 0.8	57.9	- 2.3	50.0	+ 1.9	35.6	+ 0.4	.....	.....	.....
Weston, Idaho.....	26.0	- 1.8	11.6	-14.0	34.2	.....	44.4	- 2.1	51.2	- 2.5	64.2	+ 2.3	66.8	- 1.5	68.0	+ 0.8	54.8	- 2.6	49.6	+ 2.6	33.4	- 2.9	.....	.....	43.9
Woodruff	14.8	- 2.5	2.6	-17.0	19.8	-10.7	38.2	0	45.4	- 2.4	57.8	+ 2.3	63.4	+ 3.0	62.2	+ 2.2	49.1	- 2.4	.....	.....	25.1	- 6.0	19.8	+ 0.1	.....
Middle.																									
Black Rock.....	29.6	+ 2.6	11.2	-12.8	38.8	+ 2.0	46.2	- 1.8	53.2	- 4.8	64.8	0	67.6	- 2.7	69.1	- 0.1	57.4	- 0.3	48.1	- 2.0	39.4	+ 1.4	25.2	- 2.0	45.9
Callao	29.2	.....	.....	.....	.....	.....	48.8	.....	54.6	.....	.....	.....	73.8	.....	72.4	.....	59.6	.....	49.3	.....	35.9	.....	24.1	.....	.....
Castle Dale.....	21.4	- 5.4	14.0	-17.0	36.2	- 1.6	43.6	- 2.1	51.6	- 3.7	63.8	- 2.0	68.8	- 0.6	69.8	+ 1.8	57.8	- 1.6	48.6	- 0.3	34.8	- 3.5	22.4	- 3.1	44.4
Cisco	22.6	- 2.3	13.1	-17.2	39.9	- 2.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Deseret	29.0	+ 2.0	10.2	-20.8	39.6	- 0.2	46.5	- 1.2	54.2	- 3.8	67.0	+ 0.9	69.0	- 3.4	71.2	- 0.2	59.0	- 1.6	53.5	+ 4.2	37.4	+ 0.1	25.4	+ 0.2	46.8
Emery	26.2	.....	19.2	-11.7	35.1	.....	40.8	- 2.6	47.4	- 5.8	58.7	- 2.1	62.8	- 3.6	70.0	+ 4.2	52.6	- 4.0	48.8	+ 1.5	38.4	+ 2.1	25.8	- 2.5	43.8
Fillmore	31.5	+ 4.5	19.6	-13.0	41.1	+ 1.3	47.9	- 1.5	55.9	- 1.9	71.0	+ 3.3	73.6	- 1.3	77.6	+ 3.4	64.6	- 0.4	53.6	+ 1.5	42.0	+ 1.2	31.6	+ 2.4	51.0
Garrison .....	.....	.....	16.8	.....	40.8	.....	46.9	.....	54.2	.....	66.6	.....	73.7	.....	72.8	.....	61.2	.....	50.7	.....	40.8	.....	27.0	.....	.....
Gov't Creek.....	29.2	.....	16.0	-17.8	36.4	+ 1.3	44.8	- 1.8	51.6	- 5.7	66.2	+ 1.6	72.4	- 1.2	73.8	+ 1.6	60.2	- 0.9	49.8	- 2.1	39.8	+ 0.6	26.4	- 3.8	47.2
Grand Jct., Colo.....	23.8	- 3.2	15.3	-16.0	41.7	- 1.1	51.8	- 1.4	59.6	- 2.0	70.9	- 0.9	76.8	- 1.0	76.9	+ 1.3	62.6	- 4.6	54.3	+ 1.6	40.3	+ 0.2	27.6	- 0.1	50.1
Green River.....	20.2	- 6.8	13.9	-21.0	46.2	+ 1.8	54.2	+ 1.3	62.8	- 2.6	79.8	+ 7.0	79.2	- 0.2	78.9	+ 2.2	64.2	- 0.2	57.9	+ 6.6	39.8	- 0.2	23.8	- 0.2	51.7
Ibapah	29.2	.....	14.8	.....	36.2	.....	43.5	.....	49.7	.....	62.5	.....	64.0	.....	67.0	.....	55.2	.....	46.0	.....	36.3	.....	23.2	.....	44.0
Levan	26.0	+ 2.1	14.0	-13.9	35.2	- 0.6	44.8	- 1.7	51.0	- 4.6	64.8	+ 0.4	68.8	- 3.1	71.4	+ 1.2	57.8	- 2.7	47.8	+ 0.4	38.4	+ 1.8	24.2	- 1.1	45.4
Manti	27.8	+ 2.2	16.2	-11.4	35.5	- 2.1	44.4	- 4.2	50.8	- 8.6	63.6	- 4.0	72.6	+ 1.3	69.3	- 1.3	58.2	- 3.7	49.0	- 1.5	38.4	+ 0.6	26.0	- 0.0	49.0
Mount Nebo.....	28.1	.....	15.0	.....	38.6	.....	49.0	.....	53.0	.....	66.8	.....	74.4	.....	74.2	.....	60.9	.....	52.4	.....	39.8	.....	27.6	.....	48.3
Mount Pleasant.....	27.2	- 0.6	18.8	-11.8	37.4	+ 0.8	45.4	- 2.0	52.5	- 3.1	65.6	+ 0.7	69.5	- 3.1	72.6	+ 0.9	58.9	- 3.4	49.0	- 1.8	40.6	+ 1.4	28.6	+ 1.2	47.2
Provo	29.9	+ 3.3	17.4	-13.0	40.6	+ 1.4	48.2	- 1.0	53.9	- 4.4	65.6	+ 1.1	69.6	- 4.1	71.2	+ 0.6	58.8	- 1.1	50.2	+ 1.6	39.8	+ 1.0	28.6	- 0.7	47.8
Richfield	30.3	+ 4.6	.....	.....	40.4	+ 1.1	.....	.....	54.2	- 3.5	63.9	- 0.3	67.0	- 4.4	68.3	+ 1.0	55.8	- 2.6	48.0	+ 0.3	.....	.....	26.1	- 2.8	.....
Scipio	29.6	+ 3.2	13.4	-18.0	38.2	+ 1.8	45.8	- 0.4	52.4	- 1.9	66.8	+ 2.3	71.8	+ 1.4	71.2	+ 2.0	58.9	- 0.9	48.0	+ 0.5	38.9	+ 1.8	26.2	+ 0.6	46.8
Soldier Summit.....	.....	.....	.....	.....	47.8	+ 7.5	54.3	+ 6.9	60.7	+ 5.6	74.8	+14.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thistle	21.8	- 4.0	22.2	- 6.9	38.1	+ 1.4	50.0	+ 3.0	56.7	+ 1.9	68.7	+ 6.2	75.1	+ 4.9	76.0	+ 7.4	61.6	+ 4.5	53.0	+ 6.0	43.6	+ 7.5	31.6	+ 6.4	49.9
Wellington	23.8	.....																						

MONTHLY MAXIMUM TEMPERATURES FOR THE YEAR 1903, WITH DATES.

Sections and Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	
Northern.																									
Alpine.	50	*25	47	24	70	*30	95	23	97	13			100	1	103	20	78	27	78	4	75	*4	45	*2	
Blue Creek.	49	25	42	24	68	29	84	25	93	13	90	28	99	12	105	2	98	*1	77	16	74	1	48	2	
Corinne.	43	6	40	22	62	30	69	25	76	13	82	14	87	12	90	19	83	*1	70	*9	62	4	49	1	
Edwinston, Wyo.	52	25	40	11	65	*30	76	23	89	*14	94	19	95	*13	94	18	90	*1	75	10	68	8	45	*1	
Fort Duchesne.			34	*25	62	31	79	*15	80	31	98	19	97	15	97	*7	94	1	75	*9	64	14	44	21	
Heber.	44	*24	40	24	62	29	78	25	84	13	92	28	92	12	96	19	92	*2	78	9	67	*5	50	1	
Heifer.	50	24	47	10	64	26	78	25	86	13	89	18	92	12	95	19	90	*1	80	9	72	*7	54	1	
Huntsville.																									
Idleton.	49	*23			65	30	76	26	86	14	94	29	97	*13	97	13	92	1	72	*9	67	7	39	*2	
Logan.	47	24	39	10	64	*29	76	25	84	13	86	28	91	13	96	19	90	*1	72	18	62	7	43	*1	
Leadoville.	46	6	36	*23	48	29	68	*22	79	13	83	27	90	12	89	2	87		64	18	62	7	43	*2	
Lilloie.																									
Lorgan.			48	10	71	12	78	25	86	13	88	27	92	12	94	*18	91	5	78	9	71	8	50	8	
Mapley, Idaho.			47	23	63	29	72	*21	92	13	96	25	96	20		95	21	80	*17				57	1	
Ngden No. 1.	50	24	38	11	67	29	82	25	88	13	93	27	95	12	93	*17	88	4	74	9	68	7	40	21	
Ngden No. II.	50	27	45	26	69	31	79	25	76	*12	86	19	100	12	99	19	96	4	76	*9	56	24	46	1	
Ork City.	49	6	42	22	62	29	80	25	91	13	101	28	97	1		91	4	74	8	64	7	50	1		
Peatello, Idaho.	48	6	40	10	60	29	76	25	85	13	87	27	93	12	96	18	90	1	77	18	65	2	52	1	
Promontory.																									
Altair Beach.																									
Alt Lake City.																									
Arrowville.	53	27	42	10	65	13	80	25	86	13	91	28	96	13	98	19	92	3	77	9	70	7	45	17	
Battle Lake.	48	7	38	*22	63	30	77	15	87	13	91	27	94	15	97	*17	93	2	80	20	64	7	46	7	
Battle Lake.	48	25	41	24	68	*29	78	25	88	13	94	*26	98	26	100	*17	95	*1	79	9	62	*7	45	*2	
Boole.	54	24	54	10	70	29	79	25	88	13	92	28	97	12	102	19	96	4	75	9	68	7	46	20	
Bernal.	48	27	39	23	64	28	81	25	88	13	95	18	96	14	96	*6	94	1	77	*9	64	*7			
Boston, Idaho.	46	6	40	24	64	30	79	25	87	13	92	*27	98	12	98	*17	94	*1	76	*9	67	7	44	2	
Woodruff.	49	4	42	*10	50	*29	75	25	84	13	87	18	91	12	97	23	90	4			65	25	67	1	
Middle.																									
Black Rock.	55	*21	47	12	70	30	82	25	88	13	94	26	92	*27	92	*6	88	*1	77	8	70	22	52	1	
Ballao.	54	*13					85	25	92	13			95	27	99	18	95	1	76	*10	74	7	48	*14	
Battle Dale.	49	4	50	12	74	14	83	29	87	13		96	28	104	15	100	6	94	*1	83	19	70	2	63	
Beeco.	56	29	28	*24	60	*14																			
Beseret.	59	24	42	11	71	30	82	25			98	28	85		98	*18	96	3	82	*8	73	7	57	*2	
Bemery.	46	*4	46	*11	63	30	76	*23	76	31	80	*25	85	12	84	8	78	5	73	16	65	1	59	1	
Billmore.	60	24	53	23	71	29	85	25	95	13	102	28	102	12	104	*18	102	3	81	18	71	20	62	1	
Barrison.			47	11	72	30	81	25	88	13	97	28	96	28	98	24	92	*1	87	4	70	6	59	*16	
Boy's Creek.	48	*6	46	23	62	30	76	*10	84	31	93	28	95	13	95	*17	92	1	75	8	66	7	46	1	
Grand Junction, Colo.	56	28	40	24	66	31	79	23	86	13	99	29	98	12	98	6	93	1	80	10	72	14	54	1	
Green River.	45	24	50	27	75	21	91	30	97	14	107	30	107	12	108	13	103	*1	97	6	78	8	53	13	
Hapah.	65	6	45	*10	68	29	77	25	87	13	94	28	95	12	96	19	93	2	78	*18	71	7	55	1	
Hevan.	45	27	45	23	62	*29	78	25	84	13	92	28	91	12	94	*18	89	*1	73	9	65	7	49	1	
Hanti.	50	*25	45	*12	62	30	78	26	85	14	94	19	93	14	94	20	92	4	85	19	70	8	50	*1	
Mount Nebo.	58	24	44	11	65	29	82	25	89	13	98	28	98	*12	98	*19	95	5	79	*9	70	7	51	17	
Mount Pleasant.	50	27	51	23	60	29	79	24	85	13	95	18	95	12	96	18	95	1	78	9	69	*7	52	*1	
Provo.	58	27	49	11	68	13	84	25	90	13	93	7	97	12	97	*19	95	4	81	*8	73	7	46	*16	
Richfield.	57	24			68	30			88	13	93	29	93	12	94	17	90	1	79	8			57	1	
Scipio.	57	*24	48	24	66	29	83	24	89	13	98	28	100	29	95	*4	93	3	80	7	71	7	60	*1	
Soldier Summit.					52	30	72	25	84	30	90	28	84	*23											
Thistle.	50	19	43	*23	67	14	80	*22	90	*13	96	28	103	12	100	*5	100	1	82	9	80	1	55	1	
Wellington.	50	4	45	23	65	27	80	*23	87	12	97	28	99	27	98	7					78	1	60	2	
Southern.																									
Aneth.	53	28	52	23	71	30	84	*24	89	31	101	*27	100	12	102	6	96	*1	85	9	70	14	63	1	
Boyoto.	49	21	48	23			77	*23	83	*13			87	*11	88	*6			77	18	69	3	60	3	
Escalante.	51	12	52	1			79	26	83	*15	96	27	94	*12			89	5	72	*19	65	7	56	3	
Frisco.	62	6	51	22	64	30	79	24	85	*13	98	27	96	*1	95	*6	90	*3	76	8	64	6	60	1	
Giles.	51	27	42	24	67	*19	84	24	89	14	104	27	101	29	101	19	98	1	78	7	65	14	55	1	
Grover (near).	55	26	55	*12	61	30	75	*22	79	13	92	*26	93	12	94	8	84	*1	73	*9	71	28	66	1	
Hite.	60	*27	58	23	75	30	91	24	95	13	106	27	106	17	107	18	101	4	91	8	73	11	62	2	
Kanab.	56	24	52	23	65	30	87	25	86	13	93	*26	100	70	95	6	91	1	74	*20	69	8	55	1	
La Sal.	47	6	44	23	55	27	72	25	75	*13	88	*27	89	12	89	6	85	4							
Loa.	43	*6	39	22	59	30	73	*23	81	31	98	*37	110	20	100	*4	90	*1	73	9	65	7	60	1	
Lund.	53	21	43	11	66	30	80	*24	89	31	99	*25	98	*28	98	*1	92	*1	73	*8	65	*6	52	13	
Marysville (near).	52	21	50	*11	63	30	76	24	85	31	92	*26	92	12	92	6	89	3	79	8	70	6	58	1	
Minersville.	65	*19	47	11	67	30																			
Modena.	59	28	50	23	70	12	89	25	93	15	101	29	99	1	102	6	98	1	84	9	75	*14	58	2	
Monticello.	58	6	48	23	63	30	76	24	84	31	94	28	93	18	94	6	89	4	74	18	68	22	60	1	
Parowan.	44	*7	48	23	81	31	72	23	76	31	88	*28	91	*11	90	*8	89	*10	80	*11	70	*1	51	12	
Panguitch.	57	24	51	*22	64	*28	78	25	86	13	93	*26	93	28	97	17	90	3	76	8	68	7	57	23	
Pinto.	61	8	49	23	59	30	74	23	82	31	89	*27	87	*12	90	*6	85	*3	72	*8	67	22	62	1	
Plateau.	50	21	48	19	56	*27	73	25	80	31	90	28	89	12	95	3	91	20	73	8	76	7	62	1	
Ranch.	48	*7	50	19	58	30	73	24	78	*30	88	27	87	14	90	*7	82	1	76	19	70	3	68	1	
St. George.	66	5	67	24	80	30	94	24	100	14	110	27	108	14	110	6	101	4	85	8	76	14	65	*1	
Tropic.	51	*5	49	23	62	31	79	24	84	31	90	27	89	*28	90	7	86	1	77	12	69	*3	76	1	

† From 7 a. m., 2 p. m. and 9 p. m. readings. * Also on subsequent dates.

October—The heavy rains during the first half decade of the month and the ensuing warm, clear weather were particularly favorable for farm work. The rainfall had the effect of softening the ground and rendering the soil in proper condition for fall plowing, and the settled weather thereafter enabled farm work to be pushed vigorously. In consequence, fall wheat was nearly all sown and in many districts is coming up, the warm sunshine being favor-

able for rapid germination. All reports indicate that the acreage will be much larger than usual, especially that devoted to dry farming. Considerable barley has also been sown, and this, too, is coming up. The digging of beets progressed rapidly during the month, and by the close was nearing completion. Yields are generally reported as being good. Potatoes also are nearly all gathered, with the crops generally up to the average. Pastures were greatly

MONTHLY MINIMUM TEMPERATURES FOR THE YEAR 1903, WITH DATES.

Sections and Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
Northern.																								
Alpine.....	8	17	-11	14	10	*1	25	11	30	23	.....	46	7	55	26	35	12	43	*27	10	17	0	.....	.....
Blue Creek.....	4	16	-14	14	4	1	23	*12	31	3	46	25	40	4	43	27	28	16	24	*29	17	19	1	.....
Corinne.....	-10	30	-34	14	-11	18	8	*12	19	1	33	24	29	3	28	27	18	9	12	*30	-10	17	-3	.....
Evansston, Wyo.....	12	*16	-9	15	11	1	21	12	32	3	45	4	41	*3	41	27	29	16	23	31	13	17	7	.....
Farmington.....	.....	.....	-35	15	-12	1	13	6	23	8	41	25	35	4	39	27	27	15	15	*30	-1	17	-3	.....
Ft. Duchesne.....	-6	30	-30	15	-10	1	16	*6	25	3	36	*4	32	*3	32	*27	18	16	12	*30	6	17	-8	.....
Heber.....	-12	30	-39	*14	-14	1	13	6	20	2	35	4	30	4	29	27	29	*9	11	31	-19	17	-10	.....
Honefer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntsville.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kelton.....	-2	30	.....	.....	1	1	19	*6	29	2	45	*23	38	7	54	7	25	15	.....	.....	.....	.....	.....
Kogan.....	6	14	-17	14	-3	1	17	11	31	2	46	24	43	*2	44	28	32	14	25	31	5	18	0	.....
Logan.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meadowville.....	-5	30	-36	14	-21	1	13	12	25	2	37	11	35	*7	35	23	26	*9	18	*30	2	17	9	.....
Millville.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Morgan.....	.....	.....	-31	15	-9	1	14	12	20	*1	36	4	32	4	32	27	25	*9	13	31	-14	17	-10	.....
Oakley, Idaho.....	.....	.....	-11	14	7	1	15	11	28	19	37	24	31	7	.....	.....	27	26	21	30	.....	.....	.....
Ogden No. I.....	9	14	-9	14	7	1	22	12	31	19	50	23	39	7	48	*26	35	*13	27	30	12	17	9	.....
Ogden No. II.....	15	*14	-3	15	12	6	25	12	38	18	58	2	57	3	56	27	43	*14	28	31	10	17	12	.....
Park City.....	1	30	-13	14	0	1	8	2	23	2	37	4	34	3	.....	.....	24	15	19	31	0	17	8	.....
Pocatello, Idaho.....	5	17	-12	15	9	1	10	2	28	2	42	24	40	8	46	24	28	15	20	30	12	17	1	.....
Promontory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saltair Beach.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salt Lake City.....	15	29	-4	14	14	1	25	12	33	17	54	4	41	3	48	27	37	16	32	31	17	17	14	.....
Snowville.....	-9	29	-22	14	-10	1	4	11	19	2	37	*13	30	8	35	28	20	16	10	*10	2	17	4	.....
Terrace.....	3	3	-19	14	4	1	19	6	29	*2	45	30	36	7	44	26	24	14	12	31	9	17	8	.....
Tooele.....	8	30	-5	14	9	1	18	11	32	17	49	3	45	7	47	27	33	13	28	30	16	17	11	.....
Vernal.....	-9	1	25	15	-5	1	16	6	30	2	43	1	36	4	38	27	29	16	20	31	5	18	.....
Weston, Idaho.....	2	30	-25	14	-12	*1	8	11	27	2	37	24	32	8	35	28	24	15	25	*7	-3	*17	-6	.....
Woodruff.....	-21	29	-36	7	-32	1	11	*6	18	2	32	24	27	4	27	28	16	9	.....	.....	-15	18	-9	.....
Middle.																								
Black Rock.....	-13	*29	-24	4	-1	1	19	13	28	3	41	*17	34	4	40	*27	25	12	13	31	5	17	-2	.....
Callao.....	-2	17	.....	.....	.....	.....	8	13	25	2	.....	.....	39	4	36	*27	26	*16	10	20	1	17	-4	.....
Castle Dale.....	-6	15	-23	7	-1	1	5	14	22	17	34	4	33	4	40	27	19	16	12	31	-3	*17	-15	.....
Cisco.....	2	*16	-22	15	8	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Deseret.....	-8	30	-28	15	-9	1	16	13	.....	.....	40	25	.....	.....	33	28	22	16	10	31	-2	17	-4	.....
Emery.....	2	1	-11	4	5	1	14	13	29	*7	39	4	34	4	35	27	30	21	26	31	0	18	0	.....
Fillmore.....	-2	30	-14	15	4	1	19	12	32	*2	45	*5	38	3	42	27	35	*9	21	31	9	17	8	.....
Garrison.....	.....	.....	-18	5	8	1	15	13	29	*1	31	6	33	3	35	27	15	15	16	30	2	17	0	.....
Gov't Creek.....	-1	29	-15	14	2	1	16	12	29	*2	44	1	38	3	40	27	29	15	20	30	9	17	5	.....
Grand Junc., Colo.....	-1	1	-15	.....	.....	.....	2	27	13	36	18	51	4	48	4	50	27	32	15	28	31	12	17	.....
Green River.....	-12	1	-23	14	18	11	19	6	30	18	47	4	43	6	50	*13	30	*16	19	31	5	19	0	.....
Ibapah.....	-15	31	-32	14	-8	1	7	13	21	19	37	25	28	8	39	27	19	16	6	31	-6	16	-10	.....
Levan.....	9	30	-15	15	2	1	18	12	30	*17	44	25	37	4	42	27	28	12	20	31	8	17	2	.....
Manti.....	5	15	-16	15	3	1	18	6	30	*7	17	42	18	34	4	38	28	26	*12	18	31	7	16	.....
Mount Nebo.....	5	*15	-15	15	3	1	22	5	28	11	41	13	38	5	43	28	20	16	20	*30	7	17	6	.....
Mount Pleasant.....	0	18	-15	14	11	6	18	*5	30	21	44	10	36	3	40	26	27	14	20	30	8	16	7	.....
Provo.....	-1	30	-18	15	7	1	19	13	30	2	41	25	37	4	39	*27	27	16	19	31	3	17	10	.....
Richfield.....	3	*28	.....	.....	9	1	.....	.....	29	1	33	22	34	3	32	26	27	*11	16	*30	.....	.....	.....
Scipio.....	-10	28	-29	14	0	1	17	1	25	*2	36	24	32	3	32	27	19	15	10	31	-1	16	-6	.....
Soldier Summit.....	.....	.....	.....	.....	.....	.....	25	1	24	*16	32	8	61	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thistle.....	2	*27	-8	4	5	6	20	*1	35	1	44	16	41	2	45	27	34	16	28	*30	19	16	-2	.....
Wellington.....	-4	*15	-21	4	3	1	10	13	24	3	38	1	34	3	36	*26	.....	.....	.....	.....	1	17	-4	.....
Southern.																								
Aneth.....	-4	1	2	7	17	1	27	13	33	18	46	1	46	4	45	28	32	*16	25	28	12	18	3	.....
Coyote.....	-8	13	-24	13	.....	.....	17	13	18	1	.....	.....	37	29	28	28	.....	.....	7	31	0	*17	-6	.....
Escalante.....	-4	*15	-11	16	.....	.....	20	14	30	*18	45	*5	42	28	.....	.....	31	16	25	31	12	18	5	.....
Frisco.....	2	29	-6	13	14	20	15	5	23	17	47	12	43	3	52	18	33	14	26	31	15	17	13	.....
Giles.....	-10	1	-18	*12	8	*1	14	6	30	*1	43	5	39	4	39	28	19	12	18	31	6	*17	-1	.....
Grover (near).....	5	15	-5	15	0	1	14	16	26	1	41	4	38	4	42	28	26	12	21	31	6	18	5	.....
Hite.....	13	1	11	*6	18	1	34	*7	42	*18	55	1	54	5	62	*2	42	30	32	31	20	23	14	.....
Kanab.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
La Sal.....	4	1	-12	12	11	19	15	2	25	17	43	14	37	3	41	26	25	14	.....	.....	.....	.....	.....
Leadville.....	-19	29	-35	3	0	18	4	12	15	17	27	*3	31	4	33	28	10	16	17	27	2	18	-10	.....
Land.....	5	3	-30	4	10	1	21	14	28	18	40	17	39	4	45	27								

MONTHLY AND ANNUAL PRECIPITATION FOR THE YEAR 1903, WITH DEPARTURES FROM THE NORMAL.

Sections and Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.		
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	
Northern.																											
ne			0.66	-1.42					3.72	+1.73			0.08	-0.52					1.60	-0.24	1.34	-0.31	0.45	-0.45			
ne Creek.	1.90	+0.93	0.02	-0.77	0.30	-0.52	0.45	-0.41	2.50	+1.67	T.	-0.43	0.39	-0.08	0.00	-0.36	0.10	-0.37	1.65	-0.75	0.40	-0.15	0.20	-0.09	7.72	-0.71	
ane	3.62	+2.35	0.10	-0.15	1.06	-0.10	1.11	-0.01	3.01	+1.83	0.15	-0.46	0.08	-0.39	0.11	-0.32	0.47	-0.17	1.03	-0.68	2.03	-1.00	0.90	-0.04	11.25	+2.13	
nston, Wyo.	2.14	+1.18	0.80	-0.43	0.44	-0.83	1.22	-0.14	1.51	-0.05	0.19	-0.46	1.18	+0.52	0.05	-0.52	0.76	-0.06	0.87	-0.33	1.62	-0.51	0.10	-0.11	11.08	2.05	
ington	3.76	+2.34	0.86	-1.69	1.19	-0.32	1.81	-0.90	3.45	+0.90	0.10	-0.18	T.	-0.32	0.20	-0.17	0.88	-0.08	1.44	-0.18	1.86	-0.40	1.37	-0.11	17.32	-1.07	
Duchesne			0.80	+0.36	0.08	-0.53	0.00	-0.15	1.02	+0.1	0.28	+0.08	1.49	+1.02	0.20	-0.54	1.20	-0.27	0.48	-0.09	0.00	-0.21	0.00	-0.18			
fer	2.17	+0.15	0.70	-1.56	1.95	-0.10	0.78	-0.54	1.42	-0.17	0.15	-0.15	0.19	0.19	0.20	-0.63	1.17	+0.19	0.76	-0.64	1.90	-0.38	1.33	-0.26	13.32	-3.19	
tsville	2.91	+1.65	1.13	-0.99	1.93	-0.52	1.11	-0.49	1.78	+0.30	0.13	-0.11	0.40	-0.14	0.13	-0.73	0.93	-0.29	0.97	-0.25	3.27	+1.37	1.3	-0.61	16.02	+0.42	
ton	7.72	+5.58	0.61	-1.77	2.01	-0.36	1.33	-0.51	2.03	-0.03	0.21	-0.30	0.12	-0.15	0.46	-0.08	1.88	-1.29	2.13	+0.52	2.30	-0.06	1.13	-0.43	22.13	+6.87	
an	0.60	-0.03	0.30	-0.14	0.40	-0.08	0.78	-0.04	1.45	+0.8	0.30	-0.01	0.00	-0.33	0.00	-0.18	0.00	-0.41					0.00	-0.76			
downville	2.62	+1.53	0.33	-0.83	0.52	-1.31	2.01	+0.21	2.89	+0.68	0.15	-0.19	0.25	-0.05	0.12	-0.39	0.90	-0.19	1.01	-0.14	2.29	+1.15	0.68	-0.40	13.97	-0.40	
gan	4.10	+3.35	0.60	-0.91	1.25	+0.67	0.80	-0.76	0.90	-0.27	1.00	+0.13	0.45	+0.18	T.	-0.52	1.20	+0.55	0.90	-0.05	3.20	-1.70	0.20	-0.90	14.90	+1.65	
ey, Idaho.	2.97	+1.78	0.22	-0.97	1.19	-0.13	1.78	-0.10	2.99	+1.10	0.3	-0.15	0.45	+0.3	0.10	-0.58	0.87	+0.44	1.28	-0.32	3.34	+1.52	0.76	-0.36	16.91	+2.26	
en No. I.	4.60		0.86		1.14		0.81		2.24		0.09		0.18		0.10		0.98		2.72		3.01		1.03		17.76		
en No. II.			T.	-0.55	2.00	+1.15	1.35	+0.48	1.04	+0.27	0.0	+0.18	T.	-0.40			0.50	-0.24	0.55	-0.23			0.30	-0.16	9.54	+1.61	
ak City.	4.77		0.53		1.38		1.48		4.31		0.0		0.07		0.35		0.94		1.57		1.74		0.95		18.12	+2.00	
atello, Idaho.	3.86	+2.37	0.90	-0.66	1.18	-0.41	0.90	-1.02	0.85	-0.76	0.00	-0.57	0.00	-0.25	0.00	-0.47	0.92	+0.24	0.30	-1.03	0.55	-0.66	0.95	-0.70	9.91	-3.81	
montory	3.88	+2.19	1.34	-1.38	2.60	-0.12	0.95	-1.0	8.5	+1.54	T.	-0.15					1.17	+0.40	1.10	-0.58	2.47	+0.46	1.45	-0.10			
air Beach.	1.77	-0.27	0.18	-1.67	0.76	-1.31	1.54	+0.03	2.18	+1.01	0.82	-0.82	0.41	-0.04	0.59	+0.17	0.42	-0.24	0.33	-0.73	1.08	-0.21	0.61	-0.92	10.79	-4.48	
Lake City.			0.56	-0.31	0.73	-0.03							0.00	-0.20	0.00	-0.36	0.00	-0.64	1.25	+0.70			0.25	-0.63			
tsville	2.11	+0.67	0.82	-0.46	1.35	-0.08	1.11	-1.10	3.55	+1.83	0.74	-0.05	0.14	-0.39	T.		0.20		0.84		1.71		0.43				
ace	1.93	-0.77	0.05	-0.84	0.57	-0.83	1.66	+0.51	1.69	-0.46	0.46	-0.04	0.00	-0.44	0.02	-0.24	0.06	-0.49	0.34	-0.74	1.87	+1.02	1.00	-0.04	9.65	-1.28	
ele	0.85	-0.22	0.50	+0.11	0.75	+0.29	0.45	+0.04	3.05	+2.40	0.35	+0.09	T.	-0.11	T.	-0.15	0.00	-0.19	T.	-0.14	1.30	+0.95	T.	-0.66	7.25	+2.08	
al	1.46	+0.73	1.05	+0.08	1.80	+0.14	1.73	+0.01	1.00	-0.79	0.19	-0.54	0.65	-0.45	T.	-0.59	0.79	+0.37	0.77	-0.56	1.64	-0.05	0.95	-0.01	12.53	-1.72	
ston, Idaho.	0.89	-0.22	0.95	+0.34	1.02	+0.22	0.67	-0.02	1.30	+0.45	0.89	-0.54	1.83	+1.20	0.13	-0.48	1.50	+0.35	0.88	+0.08	0.18	-0.52					
druff	2.36	+1.32	0.10	-0.81	0.87		1.66	-0.03	2.45	+0.20	0.58	+0.08	0.10	-0.33	0.14	-0.63	0.31	-0.03	1.27	-0.04	2.56	+0.97	0.54	-0.21	12.94	+0.23	
	1.50		0.05	-1.08	0.90	-0.44	0.72	+0.06	1.08	+0.60	0.22	-0.05	0.78	+0.47	0.00	-0.35	1.15	+1.09			0.05	-0.53	T.	-1.04			
Middle.																											
ck Rock.	1.11	+0.78	1.30	+0.48	2.00	+1.26	2.59	+1.87	1.72	+1.22	0.23	-0.14	0.41	+0.13	1.75	+1.15	0.92	+0.50	0.95	+0.23	0.10	-0.61	0.18	-0.21	13.36	+4.24	
ao	0.50				T.		2.56		2.56				0.05		T.		0.31		0.18		0.16		0.07				
o Dale.	0.08	-0.07	0.28	-0.24	0.57	+0.19	0.10	-0.49	0.13	-0.07	1.1	+0.85	0.74	+0.14	0.15	-0.73	0.49	-0.19	0.78	+0.62	T.	-0.64	0.00	-0.09	4.33	-0.15	
o	0.00	-0.68	1.35	+0.72	1.00	+0.53																					
eret	0.94	+0.56	1.30	+0.47	0.40	-0.44	0.90	-0.14	1.53	-0.66	0.40	+0.10	T.	-0.14	0.08	-0.41	0.67	+0.10	0.72	+0.23	T.	-0.40	0.05	-0.50	6.90	-0.35	
ery	T.	-0.05	0.40		0.23	+0.16	T.	0.00	0.65	-0.65	0.85	-0.85	0.72	+0.72	T.	-0.96	1.52	+1.52	1.03	+1.03	0.00	-0.14	0.00		5.43		
ore	1.44	+0.29	1.26	-0.66	1.19	-0.22	2.66	+0.77	2.27	+1.03	0.04	-0.53	0.27	-0.1	0.38	-0.39	1.00	+0.12	1.06	+0.21	0.00	-0.95	0.40	-0.74	11.97	-1.24	
lson	0.68		0.60		0.20		0.38		1.16		0.54		0.05		0.55		0.38		0.23		T.						
t Creek.	1.43	+0.87	1.10	-0.12	2.12	+0.69	1.07	-0.57	2.10	-0.44	0.14	-0.16	0.09	-0.34	0.26	-1.46	0.07	-0.37	0.40	-0.01	0.54	-0.92	0.09	-0.73	9.41	-2.12	
nd Jct., Colo.	0.15	-0.46	1.05	+0.46	0.73	-0.10	0.78	-0.12	1.21	-0.58	1.22	+0.87	0.67	+0.12	0.02	-1.12	0.69	-0.24	0.07	-1.09	0.01	-0.62	0.02	-0.39	6.62	-1.88	
on River.	0.00	-0.14	0.55	-0.11	0.02	-0.24	0.50	+0.22	0.67	+0.31	0.05	-0.05	0.37	-0.35	1.01	+0.35	0.12	-0.19	0.00	-0.15	0.01	-0.21	0.31	-0.30	3.20	-1.18	
ah	0.25		0.88		1.12		1.91		0.44		0.30		0.20		0.20		0.21		0.31		0.37		0.15				
an	1.64	+0.30	0.98	-0.55	1.33	-0.78	2.03	+0.22	2.26	+0.90	0.48	-0.07	0.47	-0.11	0.15	-0.58	0.92	-0.14	1.56	+0.29	0.24	-0.79	0.52	-1.29	12.58	-2.04	
nti	0.73	-0.30	1.18	-0.14	1.16	-0.58	1.22	-0.62	2.20	-1.70	0.28	+0.10	0.13	-0.01	0.11	-0.42	0.98	+0.17	1.21	+0.44	0.20	-0.56	0.40	-0.25	10.26	+1.65	
nt Nebo.	1.87		1.50		1.61		0.44		1.78		T.		0.14		0.11		0.26		0.38		T.		0.23		7.82		
nt Pleasant.	1.24	+0.10	1.10	-0.88	1.40	-0.20	1.41	+0.65	1.49	+0.41	0.59	+0.14	0.56	-0.14	T.	-0.71	1.57	+0.75	0.58	-0.38	0.20	-0.73	0.20	-1.18	10.34	-1.84	
o	2.65	+1.65	0.65	-0.72	1.80	+0.50	0.51	-0.60	2.79	+1.32	0.30	-0.19	0.39	+0.21	0.42	+0.16	0.72	+0.33	0.55	-0.29	1.14	+0.11	0.49	-1.00	12.31	-0.82	
o	0.60	-0.04			0.57	-0.72			1.39	+1.12	T.	-0.18	0.31	-0.04	0.30	-0.28	1.00	+0.53	0.83	+0.43			0.04	-0.72			
Summit.	1.51	+0.24	0.86	-0.69	1.59	-0.60	1.83	+0.76	1.95	+0.92	0.3	+0.04	0.27	-0.43	0.17	-0.77	0.98	+0.32	0.67	-0.79	0.48	-0.80	0.33	-0.54	11.01	-1.81	
ie			0.20	-1.78					0.00	-0.18	2.00	+1.56			0.10	-1.13	0.66	-0.40	1.43	+0.97	0.80	-0.42	1.40	-0.02			
ington	0.52	+0.28	0.00	-0.70	0.76	+0.28	1.75	+0.72	1.60	+0.79	0.35	0	0.53	-0.09	0.33	-0.45	1.28	+0.38			0.00	-0.80	0.05	-0.05			
Southern.																											
ch	0.11	-0.45	0.50	-0.02	1.54	+1.14	0.59	+0.50	0.12	-0.12	0.51	+0.01	0.33	-0.03	0.04	-0.86	0.93	+0.19	0.06	-0.19	0.00	-0.79	0.02	-0.35	4.80	-0.61	
oto	0.01		0.03		0.01		0.53		0.53		0.60	+0.49	1.43		0.47	-0.16	0.30	-0.79	0.11	-0.04	0.06		0.00	-0.45			
alante	1.50		0.50		0.56		0.60		0.60		1.43		1.87		0.43		1.10	+1.10	0.41	+0.03	0.00	-0.76	0.00				
co	0.75	+0.37	1.66	+1.10	0.08	+0.07	1.9	+0.77	1.88	+1.32	0.63	+0.46	0.72	-0.09	1.12	-0.14	0.82	+0.43	0.85	+0.23	0.02	-0.52	0.07	-0.31	10.72	+3.10	
s	0.10	-0.31	0.42		0.26	+0.11	0.72	-0.26	1.12	-0.85	0.65	+0.50	0.85	+0.50	0.12	-0.55	1.17	+0.62	0.27	-0.39	0.00	-0.29	T.	-0.14	5.68	+1.78	
ver (near).	T.	-0.85	0.40	-0.19	0.36	-0.21	0.31	-0.25	0.32	-0.19	0.80	+0.42	0.88	-0.32	0.33	-0.81	0.55	+0.01	0.52	+0.05	0.00	-0.78	T.	-0			

T indicates trace of precipitation.

up to good stands, and the prospects were indeed promising. Reverse conditions, however, prevailed throughout the southern half of the section, where the lack of sufficient moisture and the abnormal cold of the middle of the month had rendered the ground dry and hard. Even in this region, however, the heavy rains of the previous month had permeated the ground to a considerable depth.

and underneath the hard upper crust the soil was moist. In this portion of the section, excepting in the extreme southern counties, very little fall grain is sown, as the ground generally lies bare during the winter, and growing grain has not the requisite protection. In the milder climate of Washington and Kane counties, periods of extreme cold are rare, and in these localities considerable winter

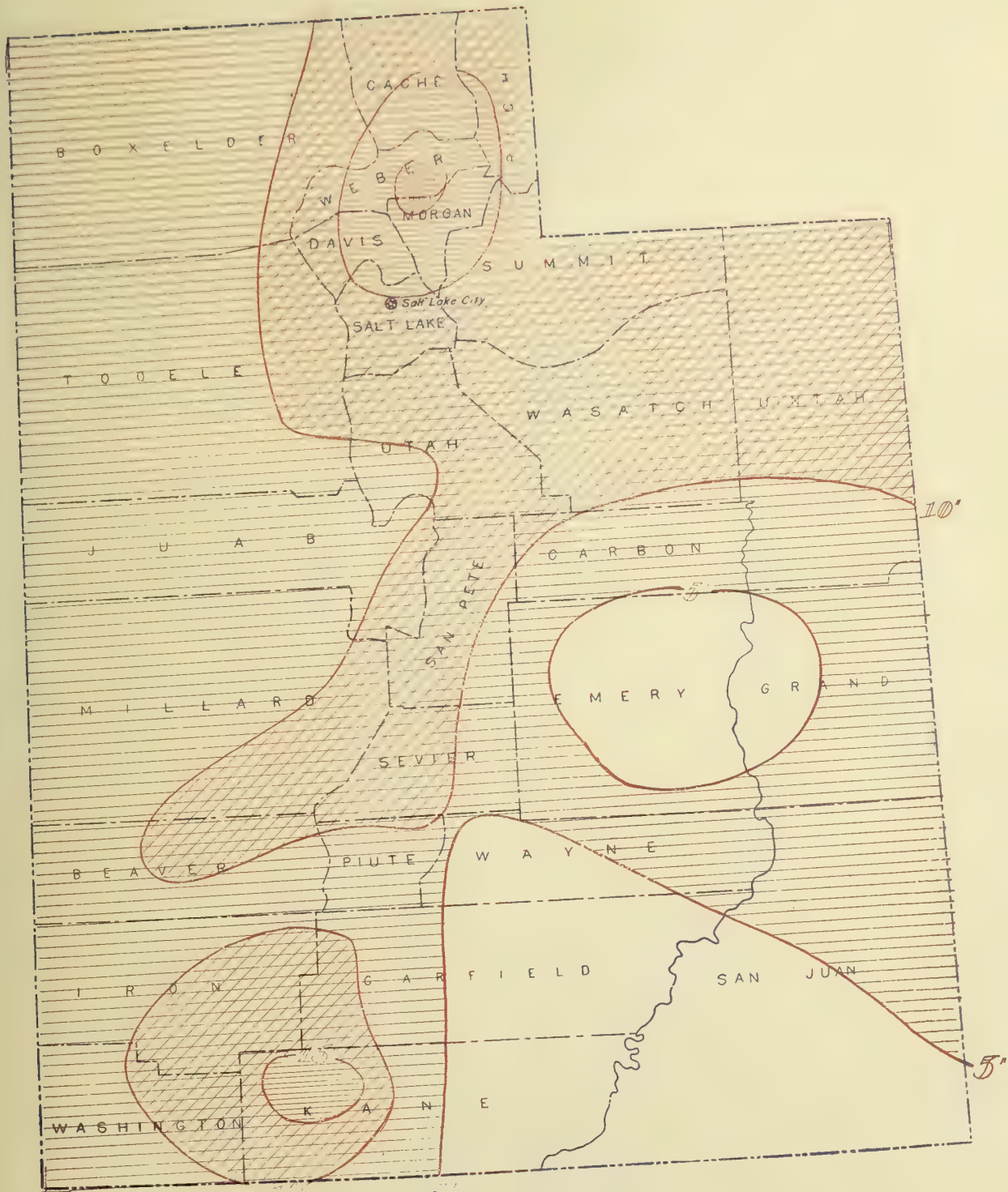
(Concluded on page 12)

O SNOWVILLE
 MEADOWVILLE
 KELTON O BLUE CREEK O LOGAN
 PROMONTORY O POINT LOOKOUT -
 TERRACE O MILLVILLE
 CARBINE O WOODRUFF
 OGDEN O HUNTSVILLE
 O MORGAN
 FARMINGTON O
 HENEFER
 SALT LAKE BEACH O SALT LAKE CITY
 CALDER'S PARK O PARK CITY
 BINGHAM CANYON O MURRAY
 TOOELE O LARIVATON O HESPER
 ALPINE
 VERNAL O
 GOVERNMENT CREEK O PROVO FORT DUCHESNE
 I BAAH O TIPSTLE
 O CALLHO MOUNT NEBO O SOLDIER SUMMIT
 LEVANT O
 MOUNT PLEASANT O WELLINGTON
 DESERET O
 SCIPICO O MANTI O CASTLE DALE
 GARRISON FILLMORE O GREEN RIVER
 RICHFIELD O EMERY O CISCO
 BLACK ROCK O PLATEAU
 FRISCO O LOA MOAB
 MARYSVALE O GILES LASAL
 MINERSVILLE O GROVER
 COYOTE
 GLIND
 PAROWAY O HITE
 ESCALANTE O MONTICELLO
 TROPIC
 RANCH
 ANETH
 KEY TO SYMBOLS

① VOLUNTARY OBSERVATION STATIONS, SECTION CENTER.
② VOLUNTARY OBSERVATION & FORECAST DISPLAY STATIONS.
③ U.S. OF STATE WEATHER BUREAU STATION.
④ FORECAST DISPLAY STATIONS.

of stands, and the prospects were not promising. The conditions, however, prevailed in the mountainous regions of the sector, where the lack of a road and the poor soil and cold of the middle of the month had not yet allowed the growing of crops. Even in this region, however, the growth of the previous month had damaged the growing of the crops (responsibility laid on the lack of a road and the cold of the middle of the month).

TOTAL PRECIPITATION FOR THE YEAR 1903.



SCALE OF SHADES - IN INCHES.



VOLUNTARY OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Alpine	T. B. Whitby.	Giles	J. C. White.	Manti	W. M. Harmon.	Provo	Caleb Tanner.
Aneth	H. R. Antes.	Gov't Creek.....	Walter James.	Marysville (near)	G. T. Henry.	Ranch	J. W. Seaman.
Black Rock.....	Willard Burbank	Green River.....	J. T. Farrer, Jr.	Meadowville	J. S. Moffat.	Richfield	J. M. Lauritzen.
Blue Creek.....	Agt. So. Pac. Co.	Grover (near)....	Henry Cullum.	Millville	Fred Yeates.	Rockville	E. R. Daley.
Callao	E. E. Edwards.	Heber	John Crook.	Minersville	R. W. Dotson.	St. George.....	J. G. Bleak.
Castle Dale.....	James Jeffs.	Henefer	William Brewer.	Moab	Henry Crouse.	Saltair Beach....	Francis W. Bailey
Cisco	H. T. Matthews.	Hite	F. W. Gibbons.	Monticello	John Bailey.	Scipio	Thos. Memmott.
Corinne	W. E. Johnson.	Huntsville	Lars Peterson.	Morgan	T. R. G. Welch.	Snowville	Joseph Robbins.
Coyote	H. J. McCullough	Idapah	Owen Sheridan.	Mount Nebo.....	D. C. Walkey.	Soldier Summit..	W. R. Johnson.
Deseret	S. W. Western.	Kanab	E. M. Ford.	Mount Pleasant.	Web Green.	Terrace	A. W. Davis.
Emery	H. C. Wickman.	Kelton	Agt. So. Pac. Co.	Ogden No. 1.....	Enoch Farr.	Thistle	W. H. Mitchell.
Escalante	W. G. Bleak.	La Sal.....	Mrs. G. W. Car-	Ogden No. 2.....	W. H. Chevers.	Tooele	I. J. Elkington.
Farmington	Charles Boylin.	Levan	penter.	Park City.....	J. H. Hance.	Tropic	E. P. Bolton.
Fillmore	J. J. Starley.	Loa	William Brown.	Parowan	James Connell.	Vernal.....	Richard Veltman
Ft. Duchesne....	Post Surgeon.	Logan	Michael Hansen.	Pinto	J. H. Harrison.	Wellington	E. E. Branch.
Frisco	S. N. Slaughter.	Lund	James Dryden.	Plateau	W. H. Schock.	Woodruff	T. J. Tingey.
Garrison	E. M. Smith.		B. R. Transeau.	Promontory	Agt. So. Pac. Co.		

DISPLAYMEN.

Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.
Bingham Canon	C. H. Roberts,	Heber	C. H. Ohlweiler.	Murray	Murray Mer. Co.	Riverton *(100)..	A. E. Walker, P. M.
*(40)	P. M.	Logan *(19).....	P. W. Maughan.	Parowan	Alexander Orton.	St. George.....	Miss L. Nelson.
Calders Park*(200)	W. J. Butter-	Morgan	T. R. G. Welch.	Point Lookout....	C. E. Foxley.	Toquerville	W. A. Bringham
	worth, P. M.	Mount Pleasant.	Thomas Braby.	Provo *(17).....	F. J. Tucker.	Utah Penitentiary	George N. Dow.

* Distributing centers. Figures in parenthesis indicate number of persons and places supplied daily with forecasts.

TABLE OF KILLING FROSTS.

Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.
Alpine.....			Garrison		Sept. 9	Lund.....	May 18	Sept. 17	Provo.....	May 20	Sept. 9
Aneth.....	April 2	Sept. 12	Gilbert	May 18	Sept. 12	Manti.....	May 25	Sept. 12	Ranch.....	May 18	Sept. 7
Black Rock	Sept. 12		Gov't Creek.....	April 29	Oct. 30	Marysville.....	May 26	Sept. 12	Richfield.....	May 23	Aug. 26
Blue Creek.....		Nov. 9	Green River.....		Sept. 11	Meadowville.....	May 25	Sept. 9	Saltair Beach....		
Callao	April 29	Sept. 13	Grover	May 21	Sept. 12	Minersville.....			St. George.....	May 24	Oct. 3
Castle Dale.....	May 28	Sept. 19	Heber	May 29	Sept. 16	Modena	April 30	Sept. 13	Salt Lake City...	April 13	Oct. 30
Cisco			Henefer	April 30	Sept. 9	Morgan	May 24	Sept. 12	Scipio	May 9	Aug. 27
Corinne	May 3	Sept. 16	Hite	May 24	Oct. 31	Monticello.....	May 24	Sept. 12	Snowville.....	May 28	Sept. 8
Coyote		Aug. 1	Huntsville	April 13	Sept. 9	Mt. Nebo.....	May 25	Sept. 15	Soldier Summit..	June 8	
Deseret	Aug. 30		Idapah		Aug. 24	Mount Pleasant.	May 24	Sept. 11	Terrace	May 25	Sept. 10
Emery	May 29		Kanab	May 19		Ogden.....	May 19	Oct. 7	Thistle	April 5	Oct. 24
Escalante	May 23	Sept. 16	Kelton	May 20	Sept. 9	Park City.....			Tooele	May 9	Oct. 7
Farmington	April 30	Sept. 8	La Sal.....	May 23		Parowan	May 17	Sept. 12	Tropic	May 23	Sept. 11
Fillmore	April 30	Oct. 7	Levan	May 23	Sept. 12	Pinto	May 18	Sept. 7	Vernal.....	May 19	Oct. 31
Ft. Duchesne....	May 25	Sept. 9	Loa	June 15	Sept. 7	Plateau	June 25	Sept. 7	Wellington.....	May 22	
Frisco	May 19	Oct. 30	Logan	May 18	Sept. 14				Woodruff.....	May 24	Aug. 27

Note.—At stations where no frost record was kept, the date of the last freezing temperature of spring and the first freezing temperature of autumn have been given. Such data have been distinguished from the regular frost report by the use of the dagger (†).

grain is sown. Favorable weather has hitherto prevailed in that region, and the growing grain is in a thriving condition.

December.—The reports of the condition of fall grain are generally reassuring, and no serious damage from the cold, frosty nights is feared. The grain is generally up and in most localities to a greater or less depth with a protecting layer of snow. In the middle portion of the section the lack of this protecting mantle, combined with the low temperatures, has caused some damage to the growing grain. In the southern portion very little winter grain is sown and so no great damage has resulted, but the long-continued drought in this portion of the state is having a blighting effect on ranges and stock are not in thriving condition. The unusual shortage in the amount of snowfall, the deficiency of which becomes more marked as we travel southward, is having a very disquieting effect and is causing some well-grounded fears that the supply of water next spring will be insufficient to meet the demands for irrigation water.

Temperature.—The mean temperature for the section was 47.2° or 1.5° below the normal. This deficiency in temperature applies to all portions of the section, the northern being 2.5°, the middle 0.8°, and the southern 1.2° below the normal mean temperatures of their respective regions. The highest annual mean for any station was 58.2° at Hite; the lowest, 39.6° at Meadowville. The highest temperature recorded during the year was 110° at Loa on July 20, and at St. George on June 27 and August 6; the lowest, 39° below zero occurred at Henefer on February 14. The annual range for the section was therefore 149°. The maximum temperatures for the year occurred generally in August; the minimum temperatures were, with scarcely an exception, recorded in February.

Precipitation.—The average precipitation for the section was 10.56 inches, or 0.47 inch below the normal. Deficiencies of 0.78 and 0.77 inch, respectively, prevailed over the northern and middle

portions, and an excess of 0.39 inch over the southern portion. The greatest annual rainfall for any station was 22.13 inches at Huntsville; the least, 3.12 inches at Hite. There was an average of 44 days with .01 inch or more of precipitation.

Character of Day and Sunshine.—There was an average of 201 clear, 92 partly cloudy, and 72 cloudy days. Determined from the automatic sunshine record, Salt Lake City had 66 per cent; Modena 78 per cent; Grand Junction, Colorado, 77 per cent, and Pocatello, Idaho, 66 per cent of the possible amount of sunshine. The normal annual sunshine at Salt Lake City is 62 per cent.

Wind.—The prevailing direction of the wind was from the south. The total number of miles recorded by the anemometer record at Salt Lake City was 51,314 miles; at Modena, 87,941; at Grand Junction, Colorado, 43,605, and at Pocatello, Idaho, 76,183. The maximum velocity at Salt Lake City was 57 miles from the northwest on November 12; at Modena, 65 miles from the southwest on July 6; at Grand Junction, Colorado, 41 miles from the southwest on April 1, and at Pocatello, Idaho, 36 miles from the southwest.

Relative Humidity.—The mean annual relative humidity at Salt Lake City was 51 per cent, the lowest observed being 8 per cent on August 8; at Modena, 47 per cent, the lowest observed reading being 4 per cent; at Grand Junction, Colorado, 53 per cent, the lowest observed reading being 7 per cent on June 29, July 29 and August 4; at Pocatello, Idaho, 58 per cent, the lowest observed reading being 15 per cent. The normal annual relative humidity at Salt Lake City is 51 per cent.

Corrections to Annual of 1902.—Pages 5 and 6, Corinne, mean annual temperature, recorded as 50.3°, should be 50.2°. Page 9, Terrace, precipitation for July recorded .01 inch, should be omitted. Page 9, Hite, precipitation for March recorded as trace, should be omitted; precipitation for April, also recorded trace, should be omitted.

401.
78.
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

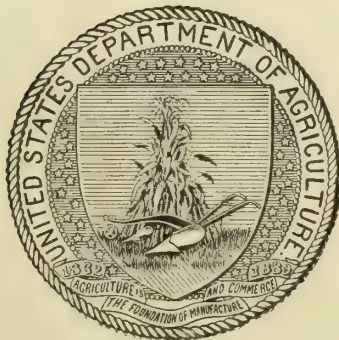
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

R. J. HYATT,

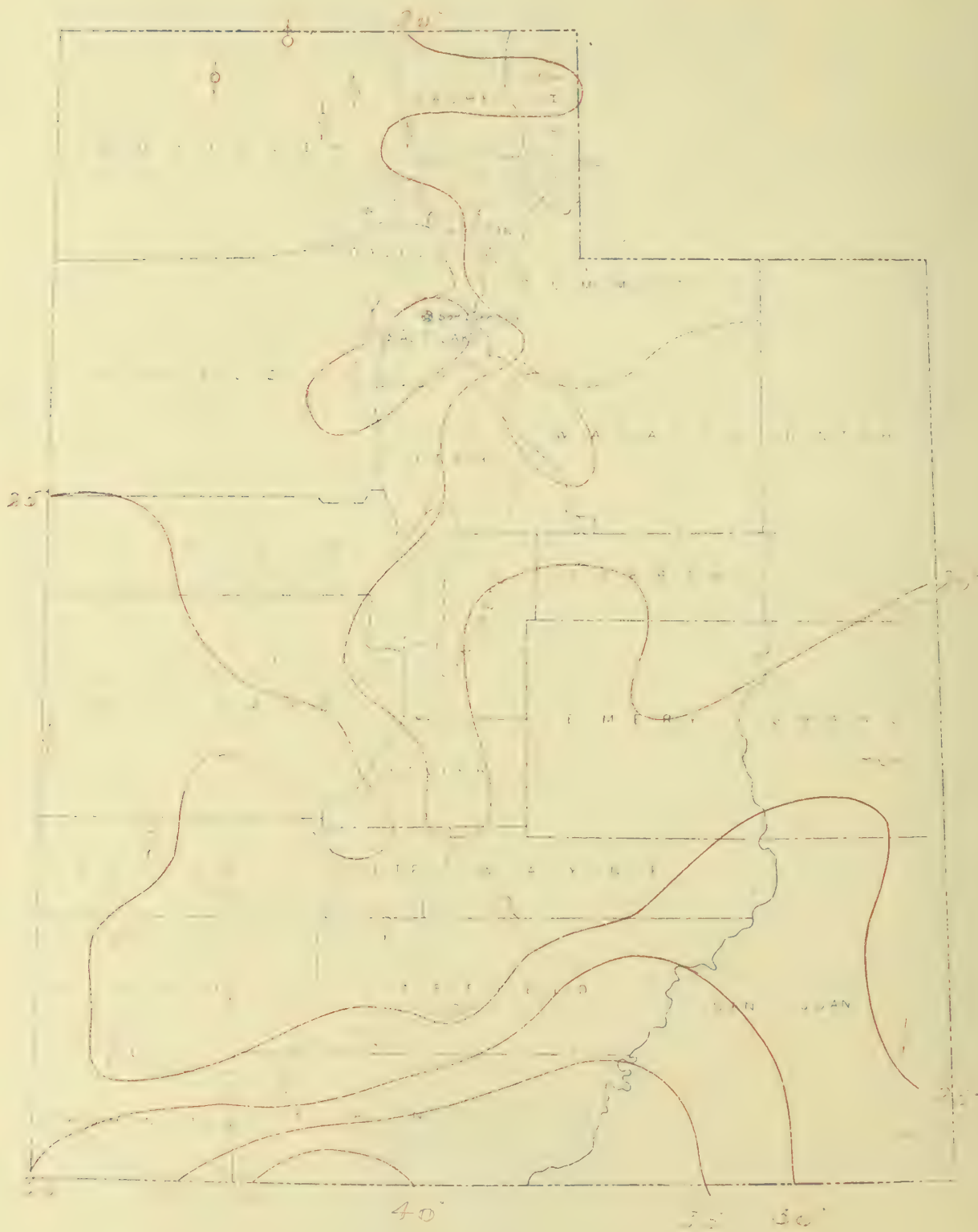
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VI.

SALT LAKE CITY, UTAH.

No. 3.

WEATHER.

The temperature was considerably below normal all over the State, though the deficiency was chiefly due to the very low minimum temperatures reached during the last decade, and not to continued cold weather. The warmest part of the month was during the fore part of the second decade, during which time the high southerly winds kept the relative humidity above normal and brought most of the precipitation that fell over the greater portion of the State during the month. Owing to the cold, stormy weather which was general over the northern half of the State, stock on the ranges suffered considerably. The animals that were fed were in fine condition. A few horses only, however, were left on the range without additional feed. The dryness over the southern portion of the State is very unfavorable to the fall grain and the pastures, there being practically no feed on the ranges. Snowstorms were frequent and heavy over the northern half of the State, bringing the precipitation above the average in the central portion of the State, and almost up to normal in the northern portion. The snows having fallen before the ground became much frozen, the prospects are very favorable for winter grain.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 23.3°, or 3.5° below the normal. The highest local monthly mean was 42.9° at Kanab; the lowest was 14.0° at Heber. The highest temperature recorded was 68° at Rockville on the 17th; the lowest was 23° below zero at Plaquemine on the 26th; giving an absolute range for the section of 94°. The greatest daily range for any station was 63° at Coyote and Pinto on the 14th. The highest temperatures of the month were generally recorded from the 14th to the 18th; and the lowest occurred from the 25th to the 28th.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 0.83 inch, or 0.08 inch below the normal. The deficiency was marked over the southern portion, where over extensive areas no precipitation occurred. Over the middle portion an excess occurred, and only a slight deficiency over the northern portion. The greatest monthly amount was 2.82 inches at Tooele. The greatest rainfall in any 24 consecutive hours was

1.82 inches at Tooele on the 5th. The precipitation was all in the form of snow except a trace of rain over portions of Washington, Kane and Garfield counties. Very little of the snow that fell farther north in the State had melted at the close of the month.

WIND AND WEATHER.

The prevailing wind was from the north. The total number of miles recorded at Salt Lake City was 3,074; at Modena, 6,846; at Grand Junction, Colo., 2,756; and at Pocatello, Idaho, 7,915. The maximum velocity at Salt Lake City was 40 miles per hour from the northwest on the 10th; at Modena, 55 miles from the southwest on the 18th; at Grand Junction, Colo., 26 miles from the southwest on the 18th; and at Pocatello, Idaho, 36 miles from the southwest on the 18th.

The average number of clear days for the State during the month was 14; partly cloudy days, 8; cloudy days, 9. Determined from automatic sunshine recorders, Salt Lake City had 52 per cent; Modena 77 per cent; and Grand Junction, Colo., 72 percent of the possible amount of sunshine. Determined from eye observations, Grover had 60 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 75 per cent, the lowest observed reading being 38 per cent on the 17th; at Modena, 61 per cent, the lowest observed reading being 16 per cent on the 14th; at Grand Junction, Colo., 61 per cent, the lowest observed reading being 29 per cent on the 18th; at Pocatello, Idaho, 68 per cent, the lowest observed reading being 34 per cent on the 17th.

There was an average of 4 days with .01 inch or more precipitation; 6 over the northern, 4 over the middle and 1 over the southern portion of the State.

FARMING OPERATIONS AND CROP CONDITIONS DURING JANUARY.

No farm work was done during the month except the caring for stock. The northern half of the section was covered with deep snow, and wheat had not been in better condition in mid-winter for several years. The ground was not frozen very deep, and it was well filled with moisture. The southern half of the State was only thinly clad with snow, many valleys being bare. The scanty snow-covering permitted the ground to freeze several inches deep, and afforded but little protection to the wheat. Very little winter wheat is grown in the middle and southern portions of the State, the wheat district being confined to the northern portion. Stock were being fed and were wintering well. Feed was reported scarce nearly everywhere. The range afforded practically no feed owing to the drouth over the southern portion of the State, and to the deep snow over the middle and northern portions.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF JANUARY, 1904.

The snow in the mountains at the close of January ranged from two to five feet in the northern and middle counties. Over the southern counties there was practically no snow on the ground. The greater portion of the snow fell during January

and it is well packed and drifted in the gulches and canyons. The snowfall in the northern part of the State was far above the average, and over the central counties the amount was about normal for the last of January. A bountiful supply of irrigation water is assured for the northern and middle portions of the State, but there will be a scarcity of water over the southern section, unless heavy snows fall before the beginning of the crop season.

PERSONAL AND GENERAL.

We are pleased to receive the first report from Rockville, Utah. Mr. E. R. Daley is the observer.

The report is missing from the station at Vernal owing to the death of the voluntary observer, Mr. Richard Veltman. Mr. Veltman was one of our most competent observers, and his place will be hard to fill.

Mr. Francis W. Bailey, the voluntary observer at Saltair Beach, favored us with a visit during the month. Mr. Bailey is also lake observer, and takes readings of the level of Great Salt Lake twice a month for this office.

A severe thunderstorm occurred on the evening of the 10th, bringing hail and heavy snow over the mountain districts of the northern portion of the State. The storm was accompanied by wind of 40 miles per hour, which packed the snow solidly in the mountain gulches and canyons. A mail carrier at Payson and two miners at Park City were stunned by lightning during the most severe part of the storm.

GREAT SALT LAKE.

The stage of the water on January 1st was 2 feet and 10 inches below the zero of the gage, and on January 15th and on February 1st, 2 feet and 9 inches below the zero, the level being stationary during the latter part of the month.

COMPARATIVE DATA FOR THE STATE.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	24.4	68	-19	0.85
1893	26.0	71	-23	0.94
1894	21.9	63	-24	1.18
1895	23.0	60	-25	1.67
1896	28.4	66	-17	0.81
1897	26.1	68	-24	1.53
1898	16.9	69	-34	1.07
1899	27.9	70	-21	1.14
1900	31.6	70	-10	0.43
1901	28.2	64	-26	0.69
1902	26.5	74	-38	0.71
1903	27.0	66	-21	1.40
1904	23.3	68	-23	0.83

CORRECTIONS FOR THE DECEMBER REPORT.

Page 6: Pocatello, Idaho, minimum temperature on the 12th recorded 27°, should be 32°; mean minimum temperature recorded 17.6°, should be 17.7°.

LATE DECEMBER REPORT.

Minersville: Mean temperature, 29.3°; departure from normal, +1.5; maximum temperature, 62° on the 1st; minimum temperature, 4° on the 4th; greatest daily range, 39°; precipitation, none; departure, -0.64 inch.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Sleet.—Callao, 10.

Earthquake.—Marysvale, 16.

Sandstorm.—Aneth, 16, 18, 30.

Hail.—Pinto, 18; Salt Lake, 11.

Corona, lunar.—Marysvale, 2, 27, 29.

Paraselenae.—Black Rock, 21; Henefer, 19, 20.

Thunderstorms.—Farmington, 10; Salt Lake, 10.

Blizzard.—Marysvale, 20; Meadowville, 24; Ogden, 11.

Lightning.—Frisco, 10; Henefer, 10; Ogden, 9; Woodruff, 11.

Fog.—Callao, 8, 9, 14-16; Deseret, 3, 6-11, 14; Frisco, 7; Henefer, 13; Huntsville, 8; Levan, 3; Marysvale, 7, 8; Meadowville, 1, 7, 8, 14.

High winds.—Aneth, 21; Black Rock, 4, 18, 19; Coyto, 30; Deseret, 5, 6; Garrison, 4, 17-19; Giles, 22; Grover, 9, 18, 20-24; Henefer, 10, 24; Levan, 18; Lund, 16-18, 23; Manti, 4; Marysvale, 1, 17; Meadowville, 11, 12, 21, 22; Mount Nebo, 18, 20; Ogden, 18; Salt Lake, 10, 18; Ranch, 30.

OBSERVERS' REMARKS.

Alpine. This has been quite a pleasant month. The snow is light and dry.—T. B. Whitby.

Aneth.—This has been, on the whole, a very pleasant month. very dry, and with but few disagreeable days.—H. R. Antes.

Black Rock.—The month, on the whole, was cold and with very little wind. Precipitation has been very light, both here and in the vicinity.—Willard Burbank.

Corinne.—There has been much fog during the month.—W. E. Johnson.

Deseret.—The month has been above average in temperature, and very little snow has fallen. The roads are dry and dusty, and the prospects for water for the coming season are very poor. The weather was favorable for outdoor work except plowing.—S. W. Western.

Emery. Fore part of month dry and clear; latter part much drier and very blustery. The roads are very dusty and rough.—H. C. Wickman.

Farmington.—The large amount of snow during the month has improved the prospect for water for the coming season. There is more snow in the mountains than there was last year at this time.—Chas. Boylin.

Grover.—A very dry month, and warmer than last January. There is practically no snow on the mountains, and the outlook for irrigation water is much below the average.—Henry Cullum.

Heber.—The month has been very cold and severe. All precipitation this month was in the form of snow.—John Crook.

Henefer.—A very cold month. There is more snow than usual in the valley, but is light for the time of the year in the mountains.—William Brewer.

Huntsville.—The month has been quite cloudy and stormy, but not very cold. There has been little wind. The snow on the ground is not well packed.—Lars Petersen.

Levan.—The fall grain is well protected with about 10 inches of snow in the fields; the snow in the mountains is about 2 feet. Wm. Brown.

Marysvale.—A very dry month, with piercing north winds; outlook for irrigation water very poor.—Geo. T. Henry.

Meadowville.—The month was very fine, with the exception of the 24th, when a terrific blizzard raged. There is no snow on the ground, and about 2 feet in the mountains.—J. S. Moffat.

Morgan.—The snow in the mountains is well drifted.—T. R. G. Welch.

Mount Nebo.—The month has been much colder than last January. The prospect for irrigation water is good.—D. C. Walkey.

Pinto.—A very cold, dry month; very little snow on the hills and that is very light; range dry and feed scarce.—J. H. Harrison.

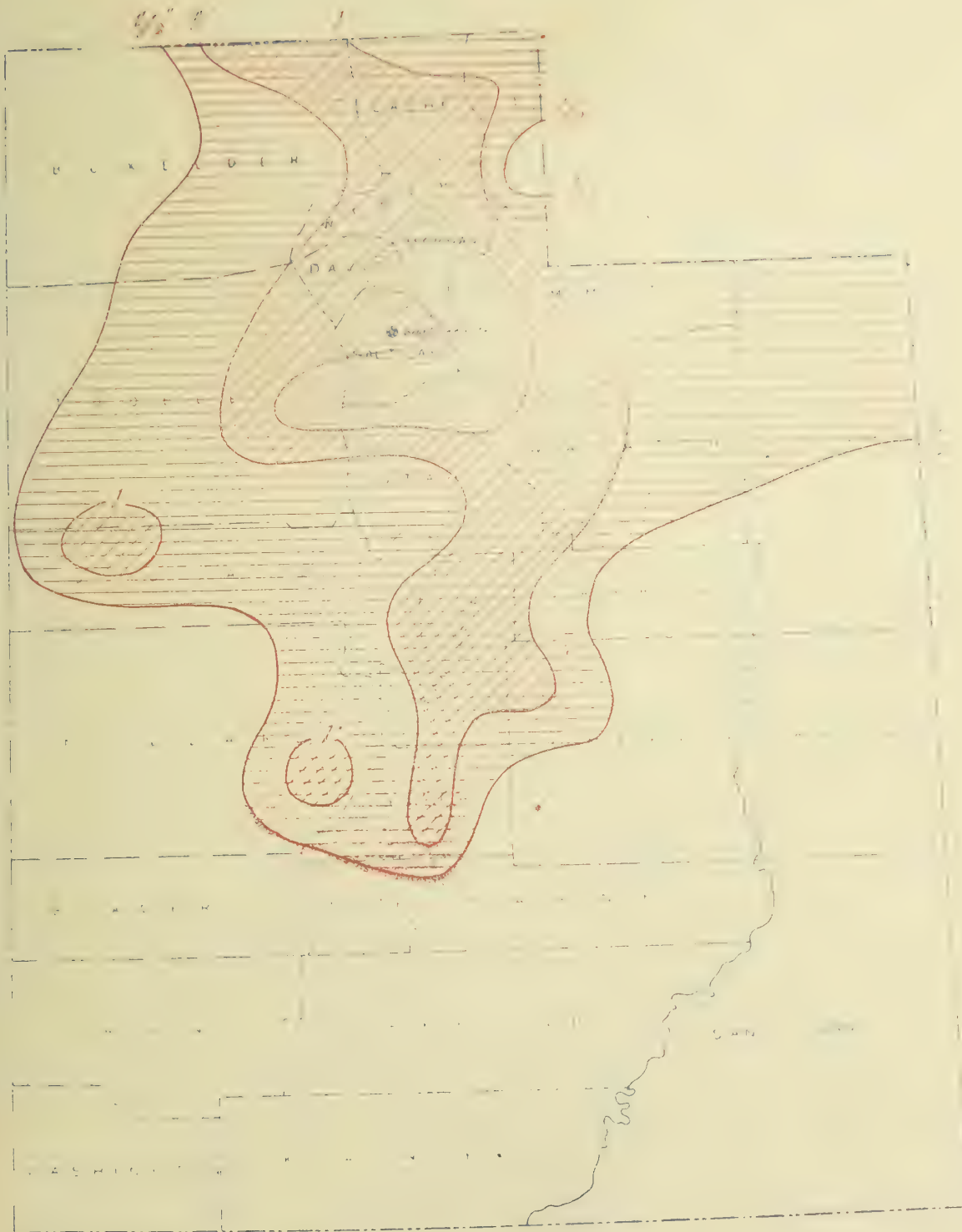
Snowville.—The snow is somewhat drifted, but is very light.—Jos. Robbins.

CLIMATOLOGICAL DATA FOR UTAH, JANUARY, 1904.

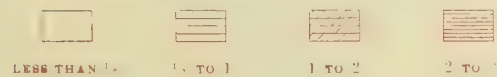
Sections and stations	Counties	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit					Precipitation, in inches					Sky.					Character of wind.	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in inches	Days with at least one snow storm	Number of clear days	Number of partly cloudy days	Number of overcast days		Percentage of clear sky
NORTHERN.																				
Alton	Utah	4,900	8							2.20	+0.87	1.00	22.0	4	10	10	8		T. R. Weather.	
Box Elder	Box Elder	4,387	20	21.1	-0.7	48	1	-7	7/5	44	1.00	+0.03	0.60	10.0	4	10	2	8	n.	Weather Bureau.
Carleton	Box Elder	4,710	34	19.6	-3.1	13	*16	-28	25	52	1.00	-0.27	0.60	10.0	5	10	5	5	n.	W. E. Johnson.
Excelsior, Wyo.	Uinta	9,020	8	10.9	-8.2	42	17	-8	28	29	0.83	-0.38	0.12	5.0	6	10	4	6	sw.	Frank Tucker.
Farington	Davis	4,797	4	21.2	-4.2	18	28	4	24	24	1.81	+1.09	0.65	28.1	7	12	7	12	nw.	Charles H. Smith.
El Duchesne	Uintah	5,000	10																Post-Season.	
Eller	Wasatch	5,000	11	14.0	-7.4	41	16	-15	8	44	2.10	+0.68	0.50	21.0	8	11	9	8	n.	John Crook.
Eller	Summit	5,301	5	16.3	-7.3	40	15	9	28	19	2.03	+0.77	0.58	24.0	10	14	5	12	nw.	William Brower.
Eller	Weber	5,000	9								1.48	-0.66	0.74	13.0	1	10	10	10	nw.	Laird Peterson.
Eller	Box Elder	4,430	20	23.1	+0.3	47	11	2	*13	34	0.10	-0.53	0.10	1.0	1	4	5	10	n.	Agent So. Pacific Co.
Eller	Cache	4,507	13	22.0	-2.7	47	18	0	28	34	1.3	+0.14	0.41	12.3	5				James Dryden.	
Eller	Rich	6,200	5	20.4	-2.3	39	*15	2	23	40	1.10	+0.25	0.40	11.0	2	17	2	12	w.	J. S. Moffat.
Eller	Cache	4,848	9								1.10		0.26	14.0	11				Post-Season.	
Eller	Morgan			16.3		46	18	10	28	17	2.18		0.70	25.6	7	15	8	8	sw.	T. R. G. Welch.
Eller	Cassia	4,191	11																Thomas Adams.	
Eller	Weber	4,316	3	24.0		40	18	5	28	45	1.0		0.40	16.0	9	15	7	9	nw.	Enoch Farr.
Eller	Weber	4,314	34	20.8	-1.7	42	1	8	25	35	0.97	-0.52	0.60	9.7	0	10	6	4	ne.	W. H. Chevers.
Eller	San Juan	6,845	7	23.9	-2.1	39	15	1	25	23	2.15	+0.46	0.70	21.5	7					J. H. Havers.
Eller	Bannock	4,488	4	25.6	+6.5	39	17	2	25	3	0.87	-1.17	0.48	12.4	9	5	10	10	e.	Weather Bureau.
Eller	Box Elder	4,913	34								0.05	-0.95	0.05	0.5	1	12	1	18	n.	Agent So. Pacific Co.
Eller	Salt Lake			28.1		49	18	3	32	28	1.04		0.88	18.3	5					Francis W. Bailey.
Eller	Salt Lake	4,300	30	20.0	-1.0	48	17	7	21	22	1.45	+0.01	0.55	15.8	12	8	10	13	se.	Section Center.
Eller	Box Elder	4,300	14	20.2	-4.0	40	13	13	25	50	1.80	+0.64	0.80	18.0	5	10	11	10	s.	Joseph Robinson.
Eller	Box Elder	4,350	30	21.0	-1.3	42	30	0	20	33	0.30	-0.33	0.30	3.0	1	13	14	1		Agent So. Pacific Co.
Eller	Tooele	4,000	8	28.0	-1.2	30	*12	8	*21	27	2.82	+2.09	1.82	28.2	5	14	7	10	s.	L. J. Elkington.
Eller	Uintah	5,050	9																	Richard Veltman.
Eller	Oneida	4,460	6	19.0	-7.1	41	16	-12	25	33	0.82	-0.18	0.23	8.5	9	9	5	17	s.	William Chatterton.
Eller	Rich	5,500	7	17.8		41	17	10	28	17	0.30		0.20	3.0	2	9	13	9	w.	Thomas Ashton.
Averages				21.8	-2.7						1.10	-0.17		14.3	6	11	8	12	n nw	
MIDDLE.																				
Black Rock	Millard	5,802	4	22.7	-1.3	39	7	-6	9	44	0.41	+0.08	0.25	4.1	1	15	7	9	n.	Willard Burbank.
Black Rock	Juab		2	28.1		55	31	0	*18	41	1.50		1.30	15.0	2	10	14	7		E. E. Edwards.
Black Rock	Emery	5,500	5	20.9	-5.9	51	31	-11	20	51	1.00	+0.85	1.00	10.0	1	17	13	6		James J. H.
Black Rock	Grand	4,385	12	21.3	-3.8	36	19	-3	27	37	0.10	-0.58	0.05	1.0	2	17	11	3	e.	H. T. Matthews.
Black Rock	Millard	4,511	10	21.2	-5.8	52	16	-6	21	50	0.15	-0.23	0.10	1.5	2	15	7	6	n.	S. W. Western.
Black Rock	Emery	6,260	1	22.6	-4.6	47	31	4	7	41	T.	-0.05	T.	0.0	0	2	16	13	n.	H. C. Wickman.
Black Rock	Millard	5,100	14	26.6	-2.4	56	10	1	21	39	1.89	+0.74	1.23	18.9	4					J. J. Stanley.
Black Rock	Millard			25.8		50	16	0	9	13	0.97		0.07	0.7	1	25	2	2	s.	E. M. Smith.
Black Rock	Tooele	5,277	1	21.1	-3.8	45	*13	-6	2	29	1.44	+0.88	0.60	14.7	5	15	10	6	s.	Walter James.
Black Rock	Mo-sa	4,608	13	28.4	-1.0	52	18	3	25	35	0.33	+0.28	0.18	1.7	7	9	18	4	se	Weather Bureau.
Black Rock	Emery	4,686	7	20.9	-6.1	50	20	-7	31	57	0.25	+0.11	0.20	2.5	2	13	4	11		J. T. Farrer, Jr.
Black Rock	Tooele			22.8		55	31	-13	6	28	0.57		0.20	5.7	4	12	13	6		Owen Sheridan.
Black Rock	Juab	5,010	14	10.2	-4.7	45	10	5	20	28	1.7	+0.37	0.75	17.1	6	12	8	11	n.	William Brown.
Black Rock	San Pete	5,575	10	24.0	-5.0	58	1	-12	26	42	1.10	+0.07	0.30	11.0	5	0	14	17		W. M. Harmon.
Black Rock	Utah	4,650	3	20.7		47	16	-9	20	37	0.55		0.22	8.7	8	15	11	5	n.	D. C. Walkey.
Black Rock	San Pete	5,859	12	21.4	-6.4	46	10	-5	20	31	1.10	-0.04	0.40	11.0	5	10	20	1		Web Greene.
Black Rock	Utah	4,532	12	10.7	-6.0	40	10	-10	20	38	1.72	+0.72	0.54	24.1	10	10	17	4	nw.	Caleb Tanner.
Black Rock	Sevier	5,323	14	24.4	-1.3	55	17	3	21	14	0.55	-0.69	0.20	5.5	4	18	3	10		J. M. Lauritzen.
Black Rock	Millard	5,260	9	10.1	-7.0	55	1	-17	*20	50	0.82	-0.45	0.26	9.7	6	13	9	9	sw.	Thomas Memmott.
Black Rock	Utah	7,171	12	15.6	-2.9	44	13	-10	20	44	1.35	-0.30	0.25	13.5	10	15	1	11	nw.	Agent Rio Grande R. R.
Black Rock	Utah	5,075	12	10.0	-6.8	50	*14	-15	25	46	1.00	+0.52	0.60	19.0	7	10	6	12	n.	J. H. Mitchell.
Black Rock	Carbon	5,510	5	21.9		48	1	-4	*1	52	0.35	+0.11	0.20	3.5	3	9	10	10		E. E. Branch.
Averages				21.5	-4.6						0.85	+0.12		9.1	4	12	11	8	n.	
SOUTHERN.																				
Alton	San Juan	4,860	4	25.6	-6.0	54	18	-2	26	41	0.05	-0.51	0.05	0.5	1	19	9	3	w.	H. R. Antes.
Alton	Garfield		3	21.2		58	14	-12	26	63	T.		T.	0	17	0	12	0	n.	H. J. McCullough.
Alton	Garfield	5,700	1	24.8		48	15	5	29	10	0.10		0.10	1.0	1	11	13	4	w.	W. G. Bleak.
Alton	Beaver	7,318	10	28.9	-2.8	53	11	1	21	31	0.50	+0.12	0.35	7.0	3	15	10	6	n.	S. N. Slaughter.
Alton	Wayne	4,000	9	20.6	-5.2	45	*18	-6	20	42	T.	-0.41	T.	0	20	6	5			J. C. White.
Alton	Wayne	5,800	8	24.8	-1.5	52	8	3	20	42	T.	-0.85	T.	0	17	6	8		nw.	Henry Cullum.
Alton	Garfield	3,000	5	33.5		55	*16	11	26	38	0.10		0.10	0.0	1	21	10	0		F. W. Gibbons.
Alton	Kane	4,925	4	42.9		51	*14	25	20	14	0.10		0.10	1.0	1	20	0	5		Z. K. Judd.
Alton	San Juan	7,000	4																	Mrs. G. W. Carpenter.
Alton	Wayne	7,000	12	21.2	-1.2	50	6	-12	21	45	0.00	-0.45	0.60	0.0	0					Michael Hansen.
Alton	Iron	5,692	4	24.2		50	14	-7	10	55	0.10		0.10	1.0	1	10	2	4	sw.	B. R. Transeau.
Alton	Piute	6,180	5	25.7		56	16	-4	20	50	0.29		0.10	3.0	5	13	6	12	n.	G. T. Henry.
Alton	Beaver	5,070	7	24.4	-4.3	51	28	-12	6	38	0.70	-0.05	0.40	7.0	2				nw.	R. W. Dotson.
Alton	Grand	4,000	15	26.4	-3.0	51	18	3	27	38	0.15	-0.48	0.10	1.5	2	13	10	8		Henry Crouse.
Alton	Iron	5,179	4	25.4		59	14	-8	21	50	0.20		0.12	2.8	3	10	8	1	w.	Weather Bureau.
Alton	San Juan	7,280	2	22.6		44	*19	0	*9	46	0.01		0.01	6.1	1	22	1	5	n.	John Bailey.
Alton	Iron	5,070	13	24.7	-3.7	49	13	-8	20	39	0.43	-0.61	0.34	0.5	3	18	9	1	n.	James Connell.
Alton	Washington	5,907	7	21.6	-5.5	58	14	-12	21	63	0.80	-0.05	0.60	8.0	2	10	5	7	n.	J. H. Harrison.
Alton	Sevier	7,000	2	17.8		50	1	-23	26	62	1.26		0.46	13.5	7	13	10	8	n.	W. H. Schock.

Pol-fac figures indicate temperatures below zero.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, JANUARY, 1904.

Sections and Stations.	Day of month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTHERN.																																
Alpine				.60						.40												1.00	.20									2.20
Blue Creek										.60																						1.00
Corinne	T.		T.							.60									.05			.30		.15	.10					.10		1.00
Evanston, Wyo.	T.				.11					.09	T.								.08		.09	T.	.12		.04							0.50
Farmington	T.	.30	.10	T.	.50		T.	T.			.65								T.		.60		.21	.15				T.		T.		2.50
Ft. Duchesne				*	.40				T.	*	.40								.50		.50	*	.30									2.10
Heber		.12	T.	T.	.18		T.		.03	.18	.58								.37		.35	.05	.24		T.	.03		T.		T.		2.10
Huntsville			T.		.16				T.	.74									.21		T.	.37						T.	T.	T.		1.10
Kelton			T.	.19		T.				.21												.10									.09	0.10
Logan																			.33													1.20
Meadowville				.10						.40									.30			.10	.20									1.10
Millville		T.	T.	T.	.20				.02	.26	.06								.25	.03	.09	.11	.10					.01		.03		1.10
Morgan	T.		T.	T.	.25				.01	*	.70								.40		.25	.07	.40		T.			T.				2.00
Oakley, Idaho										.40																						
Ogden No. I.		T.	.09		.13				.04	T.	.27	.40							.17		.09	.07	.20					T.				1.40
Ogden No. II.		T.		.10	.10			.02	T.	.60									T.	T.	.10	.05	T.									0.90
Park City	T.	.15							T.	.40	.08	T.			T.				.70		.30	.20	.40	.10				T.	T.	.30		2.10
Pocatello, Idaho	T.	.02	T.	T.	.09		T.		.10	.40									.02	T.	.08	.04	.04	T.	T.			T.		T.		0.80
Promontory				*	.88					.35	.23								.10		.28	.03										0.05
Saltair Beach				*	.88					.35	.23								.10		.28	.03										1.60
Salt Lake City	.03	T.	.03	.02	.31	T.		T.	.02	.05	.23								.06	T.	.55	.02	.12	.01	T.	T.		T.		T.	T.	1.45
Snowville						*			*	.20	.80								.10			.60										1.80
Terrace			T.							.30																						0.30
Tooele	T.				1.82	T.				.16									.15		.64	T.	.05									2.82
Vernal																																
Weston, Idaho				.04	.02					.17	.09								.09		.04	.10	.23	.04								0.82
Woodruff										T.	T.	T.					T.	T.				T.	T.	.10	.20							0.30
MIDDLE																																
Black Rock	.04			*	.25			T.			.02								T.		.10											0.41
Callao				.20						1.30									T.	T.												1.50
Castle Dale			T.							T.		.05									1.00											1.00
Cisco				T.							.05									.05		.10										0.10
Deseret	T.			.05																.10												0.10
Emery				T.																												T.
Pittmore	.02				1.23					T.	.21										.43											1.80
Harrison				T.	T.					T.									T.	T.	*											0.07
Government Creek		.20		.60						*	.10								T.	T.	.50		.04					T.				1.44
Grand Junction, Colo.			.02		.63					.08									T.	T.	T.	.01	.12	.06						T.	.01	0.33
Green River										.05											.20											0.25
Ibapah				.20	.10					.07	*	.28							T.	.20												0.57
Levan	.10	T.		T.	.75					.30		.28							T.	.28	T.	.20		.10				T.				1.71
Manti				.20						.40									.10		.30		.20							T.		1.10
Mount Nebo				.22	T.			.01		.07	.06								.01		.04	T.	.04		.10							0.55
Mount Pleasant				.10	*					.40										.20		.20	.20					T.				1.10
Provo			.07	*	.54	.05		T.		.10	.19								.04		.16	.08	.45	.04	T.	T.		T.				1.72
Richfield					.10					.20									T.		.55	.20	.05				T.					0.55
Scipio	T.			.24	.01	T.	T.			.25									.04		.26	T.	T.		.02							0.82
Soldier Summit					.10	.10				.10	.25								.10		.10	.10	.20	.10	.20							1.35
Thistle				.60						.30	.20									.10		.30	.30		.10							1.90
Wellington				.05							.20										.10											0.35
SOUTHERN.																																
Aneth					T.						T.								T.	T.	.05											0.05
Coyoto																																T.
Escalante																																0.10
Frisco	T.			*	.35														.05		.10											0.50
Giles				T.							T.										T.											T.
Grover (near)																			T.	T.												T.
Hite																					.10											0.10
Kanab																					.10											0.10
La Sal																																0.10
Loa																																0.00
Lund								T.											T.		.10											0.10
Marysvale (near)					.10					T.	.02								.10	T.	.02		T.	.05								0.20
Minersville					.30																.40											0.70
Moab											.10										.05										T.	0.70
Modena					.04			T.											.04		.12		.20									0.20
Monticello																					.01											0.01
Parowan	T.				.05						T.								.04													T.
Pinto		T.																	.04		.34											0.43
Plateau	T.	T.		.08		.18					.15									.20		.60										0.80
Ranch	T.																			T.	T.		.46		.07	.30						1.26
Rockville																																T.
St. George																			T.													T.
Tropic											T.	T.							T.		T.											T.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

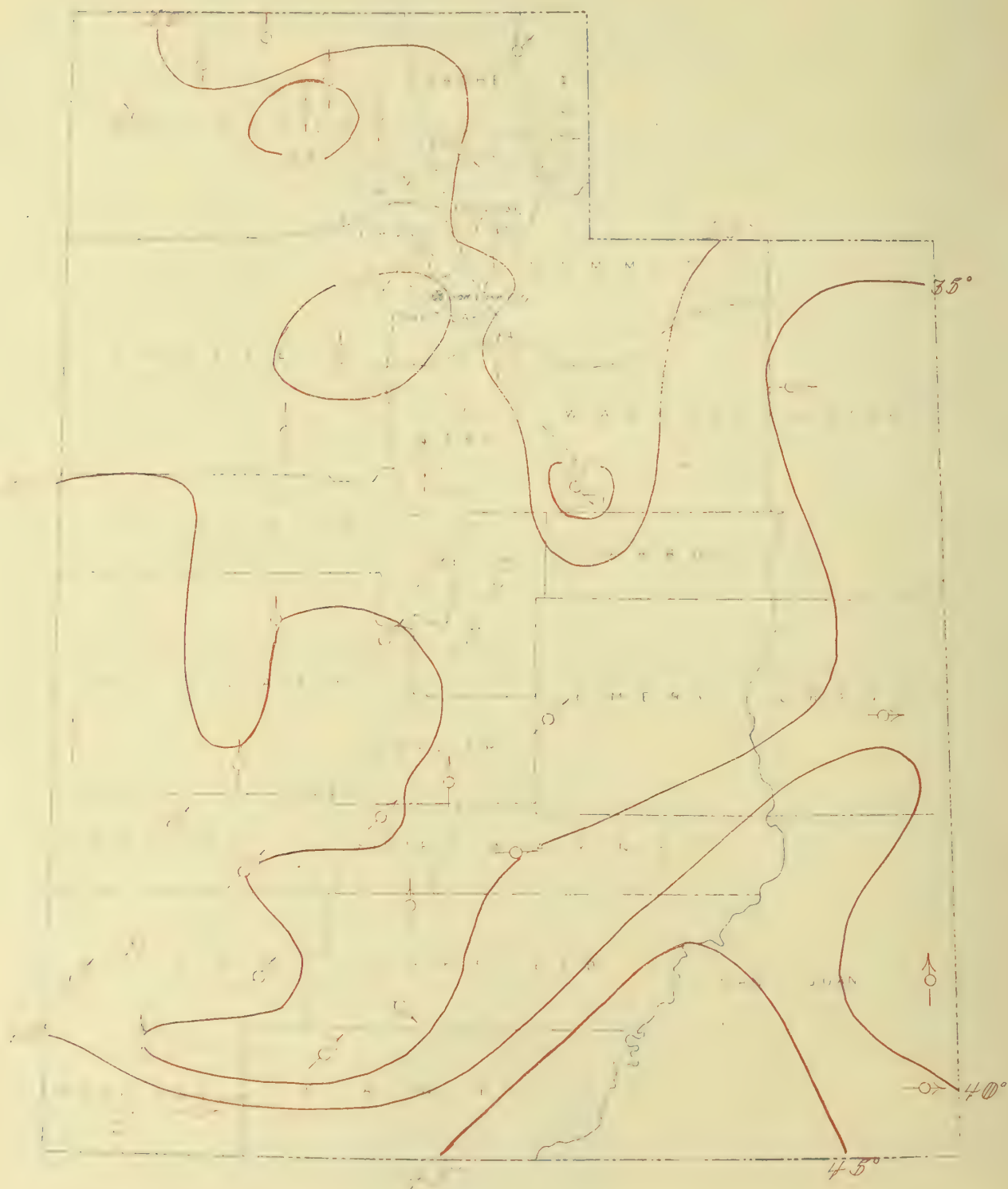
BY

R. J. HYATT,

SECTION DIRECTOR



MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VI.

SALT LAKE CITY, UTAH.

No. 4.

WEATHER.

The most striking characteristic of the month was the abnormally warm weather that prevailed during the last decade. The mean daily temperature during this period ranged from 13° to 17° above the normal, and it was mainly owing to these excessively high temperatures that the mean for the month was the highest on record, thus presenting a marked contrast to the frigid weather that prevailed during the corresponding month of last year, a month noteworthy for being the coldest in the 13 years for which there is a reliable record. During the first two decades the usual winter weather prevailed, with its alternate periods of freezing and thawing weather. A cold spell prevailed about the latter part of the first decade that reached its culmination on the 10th, when zero temperatures were recorded over extensive areas, in many instances the mercury falling to over 20° below zero. The month was more than usually cloudy, and there was an abundance of precipitation over the northern and upper middle portions of the section, the extreme northern counties particularly securing an amount far in excess of the normal. In consequence the prospective water supply for the coming season in these parts of the section are exceptionally good. The lower middle, eastern and southern portions unfortunately did not fare so well in the matter of precipitation, and as droughty conditions have prevailed in these portions of the section during the entire winter, the ground is dry and hard and the amount of snow in the mountains is far below the average. Grave fears are entertained that the supply of water for the coming season will be entirely inadequate to meet the demands for irrigation purposes.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 34.2°, or 5.4° above the normal. The highest local monthly mean was 45.4° at Hite; the lowest was 24.4° at Soldier Summit. The highest temperature recorded was 89° at Rockville on the 25th; the lowest was 26° below zero at Henefer on the 10th; giving an absolute range for the section of 115°. The greatest daily range for any station was 64° at Rockville on the 20th. The highest temperatures of the month were generally recorded on the 24th; and the lowest on the 10th.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 1.53 inches, or 0.30 inch above the normal. A

marked excess occurred over the northern portion of the section, while over the middle and southern portions the precipitation was about normal. The greatest monthly amount was 5.00 inches at Park City. The greatest rainfall in any 24 consecutive hours was 1.90 inches at Meadowville on the 22nd. Throughout the northern and middle portions the precipitation was mostly in the form of snow, although considerable rain fell during the abnormally warm spell of the last decade, but in the southern portion the amount of snowfall was deficient.

WIND AND WEATHER.

The prevailing direction of the wind was south. The total number of miles recorded at Salt Lake City was 4,398; at Modena, 8,940; at Grand Junction, Colo., 3,234; and at Pocatello, Idaho, 8,624. The maximum velocity at Salt Lake City was 42 miles per hour from the north on the 13th; at Modena, 58 miles from the southwest on the 5th; at Grand Junction, Colo., 32 miles from the south on the 5th; and at Pocatello, Idaho, 37 miles from the southwest on the 1st.

The average number of clear days during the month was 10; partly cloudy days, 9; cloudy days, 10. Determined from the automatic sunshine record, Salt Lake City had 47 per cent; Modena 73 per cent; Grand Junction, Colo., 60 per cent; and Pocatello, Idaho, 44 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 47 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 62 per cent, the lowest observed reading being 24 per cent on the 26th; at Modena, 57 per cent, the lowest observed reading being 11 per cent on the 2nd; at Grand Junction, Colo., 64 per cent, the lowest observed reading being 29 per cent on the 28th; at Pocatello, Idaho, 59 per cent, the lowest observed reading being 27 per cent on the 4th.

There was an average of 6 days with .01 inch or more precipitation; 8 over the northern, 5 over the middle and 4 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halo, solar.—Mt. Nebo, 29.

Hail.—Black Rock, 28; Minersville, 16.

Halos, lunar.—Marysvale, 2, 26, 29; Modena, 1.

Coronae, lunar.—Government Creek, 26; Lund, 1; Marysvale 29.

Fog.—Deseret, 6, 8, 17-19; Huntsville, 24; Marysvale, 7; Morgan, 24.

Thunderstorms.—Black Rock, 17; Frisco, 16; Levan, 16; Lund, 17; Meadowville, 19; Minersville, 16; Mt. Nebo, 16; Pinto, 16.

Sleet.—Callao, 21; Frisco, 16, 28; Garrison, 28; Henefer, 13; Meadowville, 12, 21; Minersville, 16; Mt. Nebo, 16; Pinto, 16; Ranch, 16, 17, 27; Soldier Summit, 23.

High winds.—Aneth, 5, 16, 19, 25-27; Black Rock, 12, 24-27; Deseret, 4, 5, 12, 15, 16, 22-24, 26, 27; Ft. Duchesne, 13, 20, 23, 25, 28; Frisco, 4, 5, 12, 26, 27; Garrison, 4, 11, 12, 14-16, 24; Giles, 5, 16; Government Creek, 4, 27; Grover, 1, 5, 24; Henefer, 5, 24; Huntsville, 4; Lund, 4, 22-24, 26, 27; Marysvale, 4, 5, 12, 24; Meadowville, 1, 23; Moab, 5, 24, 27, 28; Modena, 5; Morgan, 17; Mt. Nebo, 4, 12; Pinto, 5, 24; Ranch, 24; Salt Lake City, 5, 13, 16, 24, 26, 27; Woodruff, 1.

OBSERVERS' REMARKS.

Alpine.—Opinions differ regarding the amount of snow, but it is generally considered to be light.—Thos. B. Whitby.

Aneth.—The month was warmer than usual, and very dry.

H. R. Antes.

Deseret.—The weather in February was very favorable for farm work. Lucerne patches are being irrigated.—S. W. Western.

Emery.—February was another dry month; weather very pleasant and warm. H. C. Wickman.

Giles.—The winter has been dry and dusty; the snow on the Henry mountains is very light.—John C. White.

Government Creek.—Variable temperatures were the rule during the month, and storms were exceptionally frequent.—Walter James.

Green River.—The late February was the warmest since 1900.

John T. Farrer, Jr.

Grover.—Very windy; the last snow piled up deep in the mountains.—Henry Cullum.

Heber.—The month was very stormy, though the amount of snow on the ground gradually diminished toward the close of the month.—John Crook.

Henefer.—The month was cold and stormy, precipitation being in the form of rain and snow. The snow in the mountains has disappeared rapidly during the last ten days.—William Brewer.

Huntsville.—The month was cloudy and stormy; precipitation was slightly above average.—Lars Petersen.

Kanab.—Warm, high winds were frequent; the precipitation was chiefly in the form of snow.—E. M. Ford.

Marysville.—The month was generally cloudy and blustery.—Geo. T. Henry.

Meadowville.—The late February was the finest since records have been kept of weather conditions at this place.—J. S. Moffat.

Mt. Nebo.—The temperature and the precipitation were above that for last year; considerable plowing was done, and some grain was sown; the ground is well soaked.—D. C. Walkey.

Pinto.—The cold weather in the fore part of the month was gradually succeeded by very pleasant weather in the latter part of the month, when the frost left the ground.—J. H. Harrison.

Snowville.—The snow is nearly all gone, only a few of the deeper drifts remaining.—Jos. Robbins.

CROP CONDITIONS.

The warm weather of the latter part of the month caused the snow to disappear rapidly, and by the close of the month the valleys and plains were entirely bare excepting over the extreme northern part of the section; the frost, too, was almost entirely out of the ground. Over the northern and upper middle portions the warm rains that fell during the last decade melted the snow too rapidly, and much of the water ran off and was wasted, the streams in many localities overflowing their banks. Most of the moisture, however, soaked into the ground, which was in consequence thoroughly saturated to a considerable depth. In the eastern and southern portions of the section the soil was in general dry and hard, seriously hampering the work of plowing. This work had begun, but was not under general headway. Winter grain is generally reported to be in fine condition. Stock was

still being fed, but is in thriving condition and has withstood the winter well. Feed is becoming very scarce and prices are high.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF FEBRUARY, 1904.

Considerable rain and snow fell over the northern portion of the section during February, the amount being equal to or above the average. In the middle and southern portions the rainfall was, however, considerably below the normal. Over the northern portion the snow is well packed and drifted, and its depth is in general greater than that of last year, thus assuring an abundant supply of irrigation water for the coming season. In the middle eastern and southern portions the depth is considerably below the average, with the level ground and valleys entirely bare of snow and in consequence the prospects for irrigation water are very poor.

PERSONAL AND GENERAL.

It was with profound regret that we learned of the death of Geo. M. Dow, our displayman at the Utah State penitentiary, and for many years Warden of that institution. Mr. Dow always took an active interest in the work of the Bureau.

GREAT SALT LAKE.

The stage of the water on February 1st was 2 feet and 9 inches; on February 15th, 2 feet and 8 inches; and on March 1st, 2 feet and 5 inches below the zero of the gauge.

Comparative Temperature and Precipitation Data for February During the Past Thirteen Years.

Year.	Mean temperature	Maximum temperature	Minimum temperature.	Average precipitation
1892	32.4	73	—34	0.77
1893	26.6	70	—32	1.35
1894	20.9	68	—34	1.11
1895	25.5	74	—33	1.25
1896	31.0	74	—16	0.46
1897	27.0	63	—21	2.35
1898	29.1	79	—21	0.47
1899	28.8	77	—50	1.73
1900	32.2	73	—24	0.57
1901	31.0	75	—26	1.90
1902	34.1	74	—20	0.87
1903	16.6	67	—39	0.75
1904	34.2	89	—26	1.53

CORRECTIONS TO DECEMBER REPORT.

Page 5: Garrison—Maximum temperature recorded 57 on the 1st, should be 59 on the 16th. Pinto—Total snowfall omitted, should be 0.9. Tooele—Mean temperature recorded 28.2 should be 28.0. Wellington—Mean temperature recorded 24.0 should be 24.2.

Page 6: Tooele—Mean maximum temperature recorded 37.1 should be 36.8. Wellington—Mean minimum temperature recorded 3.5, should be 3.5.

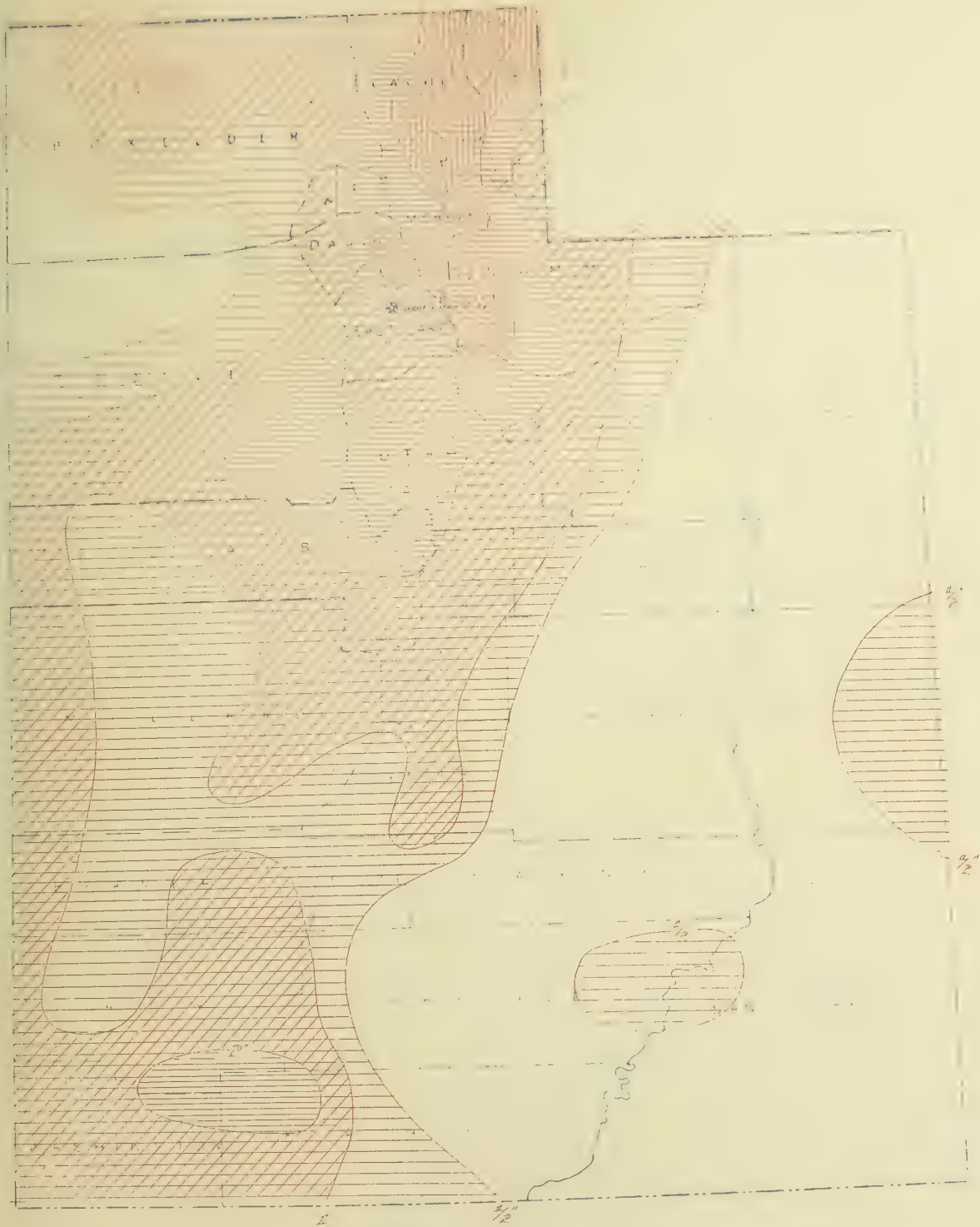
CLIMATOLOGICAL DATA FOR UTAH, FEBRUARY, 1904.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches					Sky					Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall accumulated	Days with at least an inch or more	Number clear days	Number partly cloudy days	Number cloudy days	Prevailing direction of wind	
NORTHERN.																				
Alpine	Utah	4,900	8								0.82	-1.08	0.35	5.5	4					T. B. Whitby.
Blue Creek	Box Elder	4,387	26	32.6	+2.5	48	29	7	11	28	1.12	+0.36	0.50	3.5	6	17	9	12	n. & s.	Agent So. Pacific Co.
Corinne	Box Elder	4,240	34	31.0	+1.3	61	25	1	2	47	2.14	+0.93	0.96	9.0	9	5	0	24	n.	W. E. Johnson.
Dayton, Wyo.	Uinta	6,959	9	25.3	+4.8	49	24	20	10	40	1.80	+0.25	0.56	11.0	10	16	11	8	.....	Frank Tucker.
Drummond	Davis	4,267	4	33.6	+4.7	60	27	1	10	35	3.59	+1.56	0.80	24.0	7	7	11	11	n.w.	Charles Boylin.
El Duchesne, T. U.	Uintah	5,000	16	36.0	+17.9	65	*25	4	19	37	0.01	-0.45	0.01	T.	1	21	2	3	w.	Post Surgeon.
Elmer	Wasatch	5,606	11	28.6	+6.9	56	*23	20	10	44	3.00	+0.88	0.82	15.5	13	6	5	18	s.	John Crook.
Elmer	Summit	5,301	5	28.2	+6.5	60	24	20	10	51	3.17	+1.28	0.87	22.3	14	9	6	14	n.w.-w.	William Brewer.
Elmer	Weber	5,100	9								3.97	+1.80	0.91	21.0	11	7	7	15	n.w.	Lars Petersen.
Elton	Box Elder	4,230	26	29.4	+0.4	51	29	4	*1	30	3.70	+3.17	1.09	28.1	9	3	11	15	n.	Agent So. Pacific Co.
Elton	Cassia	4,507	13	30.6	+6.0	58	*22	1	10	35	2.25	+1.16	0.80		5				.....	James Dryden.
Elton	Rich	6,200	5	28.4	+8.8	52	*23	2	14	26	4.70	+3.42	1.90	15.0	8	12	3	14	sw.	J. S. Moffat.
Elton	CACHE	4,818	9								3.12	+2.04	0.87		12				.....	Fred Yeates.
Elton	Morgan		1	29.4		55	*24	20	10	52	2.96		0.80	19.5	11	18	6	5	sw.	T. R. G. Welch.
Elton	Cassia	4,191	11	31.0	+3.2	60	21	9	*9	29	0.95	+0.36	0.60	3.5	4	10	5	14	s.	Thomas Adams.
Elton	Weber	4,310	3	33.6	+6.2	62	24	5	10	24	2.79	+1.33	0.89	12.6	12	13	7	9	n.w.	Enoch Farr.
Elton	Weber	4,310	31	35.3	+2.6	60	24	9	10					7.0		11	1	17	e.	W. H. Cheever.
Elton	Summit	6,846	7	31.6	+5.8	55	25	2	10	33	5.00	+2.55	1.29	41.0	12				.....	J. H. Hansen.
Elton	Bannock	4,488	4	33.0	+10.0	55	22	10	10	25	2.00	+0.68	0.63	6.1	15	4	11	14	e.	Weather Bureau.
Elton	Box Elder	4,913	34	30.1	+8.1	51	26	4	*9		0.15	-0.85	0.0	1.5	2	18	0	11	n.	Agent So. Pacific Co.
Elton	Salt Lake		1	35.4		66	*24	8	*2	31	1.75		0.71	11.5					.....	Francis W. Bailey.
Elton	Salt Lake	4,396	30	35.9	+2.9	66	21	6	10	60	2.25	+0.92	0.75	20.4	14	5	6	18	se.	Section Center.
Elton	Box Elder	4,300	14	27.8	+1.9	53	*25	9	10	46	2.25	+1.12	1.06	6.0	8	10	10	9	se.	Joseph Robbins.
Elton	Box Elder	4,550	34	32.5	+3.3	60	26	3	7	37	0.50	+0.10	0.20	5.0	3	7	5	17	se.	Agent So. Pacific Co.
Elton	Tooele	4,900	8	36.1	+4.8	63	24	7	10	34	2.10	+1.12	0.95		7	12	1	16	s.	L. J. Elkington.
Elton	Utah	5,050	9																.....	Richard Veltman.
Elton	Onida	4,460	6	28.0	+2.0	55	26	12	10	50	2.73	+1.49	0.48	12.0	12	7	2	20	n.	William Chatterton.
Elton	Rich	6,500	7	25.8	+9.6	65	16	21	9	55	1.65	+0.79	0.80	9.0	3	8	11	10	w.	Thomas Ashton.
Averages				31.6	+4.9						2.41	+0.76		14.0	8	11	5	13	n. & s.	
MIDDLE.																				
Black Rock	Millard	5,802	4	35.4	+9.0	71	25	7	10	40	1.00	+0.02	0.45	9.2	4	9	12	8	s.	Willard Burbank.
Black Rock	Juab		2	30.8		56	23	5	6	50	0.83		0.50	12.8	4	10	14	5	.....	E. E. Edwards.
Black Rock	Emery	5,500	5																.....	James Jeff.
Black Rock	Grand	4,395	12	37.2	+8.4	71	24	0	10	38	0.65	-0.05	0.34	5.0	5	11	17	1	w.	H. T. Matthews.
Black Rock	Millard	4,541	10	35.0	+6.3	71	24	10	10	49	0.97	+0.68	0.75	12.0	3	11	7	11	s.	S. W. Western.
Black Rock	Emery	6,260	4	33.0	+6.0	67	25	8	*6	38	T.	-0.20	T.		0	3	9	17	sw.	H. C. Wickman.
Black Rock	Millard	5,100	14	37.8	+6.4	67	24	2	10	40	1.90	-0.49	0.75		6				.....	J. J. Starley.
Black Rock	Millard		1	38.4		68	24	0	*6	35	1.49		1.01	11.0					.....	E. M. Smith.
Black Rock	Tooele	5,277	4	33.7	+5.8	63	24	1	10	34	2.24	+1.66	0.96	21.0	6	11	9	2	s.	Walter James.
Black Rock	Mesa	4,608	13	37.7	+5.4	70	24	9	9	40	0.71	+0.09	0.40	4.8	4	8	15	6	n.w.	Weather Bureau.
Black Rock	Emery	4,080	7	32.0	+2.4	73	*22	4	10	52	0.35	-0.29	0.35	T.	1	14	3	12	.....	J. T. Farrer, Jr.
Black Rock	Tooele		1	31.8		64	*22	4	18	51	1.75		0.75	17.2	5	7	15	6	.....	Owen Sheridan.
Black Rock	Juab	5,010	14	32.4	+5.5	68	*25	6	10	31	1.93	+0.43	0.66	15.0	9	10	8	11	sw.	William Brown.
Black Rock	San Pete	5,575	10	33.2	+6.8	68	*25	6	10	40	1.13	-0.17	0.50	6.3	5	0	14	15	n. & s.	D. W. Harmon.
Black Rock	Utah	4,650	3	33.9	+8.0	61	25	3	10	35	2.28	+1.23	0.52	14.5	6	11	12	6	n. & s.	W. C. Walkey.
Black Rock	San Pete	5,859	12	32.8	+3.5	64	27	2	10	39	1.71	-0.19	0.51	7.0	7	6	22	1	.....	Web Greene.
Black Rock	Utah	1,532	12	33.2	+3.9	64	25	8	10	36	2.27	+0.96	0.75	10.7	10	6	18	5	se.	Caleb Tanner.
Black Rock	Sevier	5,323	14	39.4	+8.9	70	24	2	9	40	0.20	-0.56	0.10	1.5	5	4	13	12	.....	J. M. Lauritzen.
Black Rock	Millard	5,260	9	36.0	+6.9	65	*24	15	9	52	1.74	+0.28	0.67	8.0	6	4	8	17	sw.	Thomas Memmott.
Black Rock	Utah	7,174	12	24.4	+3.0	62	*2	19	10	59	1.30	-0.50	0.25	12.0	10	15	2	12	n.w.	Agent Rio Grande R. R.
Black Rock	Utah	5,075	12	32.2	+3.7	60	*23	16	9	43	1.55	+0.07	0.95		9	14	0	15	.....	J. H. Mitchell.
Black Rock	Carbon	5,540	5	31.2	+7.3	68	25	8	9	54	0.02	-0.44	0.02		1	9	7	9	.....	E. E. Branch.
Averages				34.0	+5.6						1.27	-0.04		9.1	5	9	11	9	s.	
SOUTHERN.																				
Albion	San Juan	4,800	4	41.8	+6.9	77	24	7	1	44	0.07	-0.45	0.07		1	12	15	2	w.	H. R. Antes.
Albion	Garfield		3	33.0	+9.3	68	24	13	10	55	0.08	-0.04	0.06	0.2	3	11	2	10	s.	H. J. McCullough.
Albion	Garfield	5,700	4																.....	W. G. Bleak.
Albion	Beaver	7,318	10	38.1	+5.5	63	*23	7	6	36	0.64	-0.05	0.27		5	9	11	9	sw.	S. N. Slaughter.
Albion	Wayne	4,000	9	35.8	+6.0	70	24	3	10	44	T.	-0.27	T.		0	20	6	3	.....	J. C. White.
Albion	Wayne	5,800	8	35.6	+6.5	69	27	0	9	47	0.40	-0.16	0.30	4.0	2	11	5	13	w.	Henry Cullum.
Albion	Garfield	3,000	5	45.4	+4.9	81	24	18	1	42	0.60	+0.18	0.30		3	7	21	1	.....	F. W. Gibbons.
Albion	Kane	4,925	4			70	24				1.00	+0.38	1.00	T.	1	16	0	13	.....	E. M. Ford.
Albion	San Juan	7,060	4																.....	Mrs. G. W. Carpenter.
Albion	Wayne	7,000	12	31.2	+7.9	70	24	0	*1	55	0.50	-0.02	0.30	5.0	2	11		14	.....	Michael Hansen.
Albion	Iron	5,092	4	35.7	+10.8	78	16	10	*6	47	0.67	-0.32	0.20	5.6	7	13	9	7	ne.	B. R. Transeau.
Albion	Piute	6,180	5	35.8	+11.0	67	25	12	10	50	0.91	+0.10	0.32	9.8	9	6	9	14	sw.	G. T. Henry.
Albion	Beaver	5,070	7	37.4	+6.5	71	24	4	10	40	1.70	+0.79	0.50	12.0	5	8	13	8	sw.	R. W. Dotson.
Albion	Grand	4,300	15	43.6	+8.8	78	24	10	*1	44	0.41	-0.24	0.22	1.3	5	4	19	6	.....	Henry Crouse.
Albion	Iron	5,479	4	36.0		66	22	6	10	43	1.01		0.49	5.2	5	14	13	2	sw.	Weather Bureau.
Albion	San Juan	7,280	2	37.4		80	24	4	7	46	0.09		0.05	1.0	2	15	7	7	s.	John Bailey.
Albion	Iron	5,970	13	36.4	+6.3															

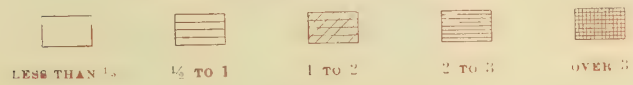
MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, FEBRUARY, 1904.

NORTH.																																					
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.						
Alto Creek	40	20	40	25	35	20	35	25	35	10	35	15	40	15	40	27	42	20	15	35	15	45	32	43	30	40	27	40	30	45	30	45	30				
Alto	30	1	17	14	30	10	35	10	35	10	35	15	40	15	40	27	42	20	15	35	15	45	32	43	30	40	27	40	30	45	30	45	30				
Carbine	38	21	34	13	40	13	35	10	35	10	35	15	40	15	40	27	42	20	15	35	15	45	32	43	30	40	27	40	30	45	30	45	30				
Exum, Wyo.	38	21	34	13	40	13	35	10	35	10	35	15	40	15	40	27	42	20	15	35	15	45	32	43	30	40	27	40	30	45	30	45	30				
Farrington	38	21	34	13	40	13	35	10	35	10	35	15	40	15	40	27	42	20	15	35	15	45	32	43	30	40	27	40	30	45	30	45	30				
Fort Duchesne	38	21	34	13	40	13	35	10	35	10	35	15	40	15	40	27	42	20	15	35	15	45	32	43	30	40	27	40	30	45	30	45	30				
Heber	41	4	36	2	42	13	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Henderson	40	8	36	2	42	13	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Kelton	35	8	36	2	42	13	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
LaSal	41	8	36	2	42	13	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Meadowville	37	10	37	17	41	22	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24	31	24			
Morgan	40	8	36	2	42	13	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Oakley, Idaho	40	8	36	2	42	13	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Ogden, No. I.	43	10	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Park City	42	12	42	15	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Pocatello, Idaho	42	12	42	15	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Salt Lake Beach	41	10	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Salt Lake City	41	10	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Snowville	44	12	42	15	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Terrace	40	12	42	15	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12	40	20	30	20	30	12			
Tonole	55	21	46	25	40	28	32	29	49	27	35	15	43	44	33	44	33	44	33	44	33	44	33	44	33	44	33	44	33	44	33	44	33	44			
Vernal	44	6	38	8	45	15	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Weston, Idaho	40	6	38	8	45	15	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
Woodruff	40	6	38	8	45	15	22	28	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2	36	14	28	38	2			
MIDDLE.																																					
Black Rock	53	10	40	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10	53	10			
Callao	50	10	56	6	55	12	52	24	29	5	52	24	29	5	52	24	29	5	52	24	29	5	52	24	29	5	52	24	29	5	52	24	29	5	52	24	
Casco	44	8	10	12	48	11	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	50	12	
Deseret	47	52	3	55	10	51	52	11	40	6	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	
Emery	45	20	50	14	53	10	51	52	11	40	6	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10	46	10		
Fillmore	51	48	60	23	54	28	52	22	40	11	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	
Garrison	52	21	18	50	23	54	28	52	22	40	11	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42
Government Creek	48	26	44	10	52	15	57	2	24	5	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	37	42	14	
Grand Junction, Colo.	52	5	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	
Green River	50	5	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	50	7	
Haupach	36	7	38	10	41	10	49	27	24	28	9	37	31	37	31	37	31	37	31	37	31	37	31	37	31	37	31	37	31	37	31	37	31	37	31		
Levan	32	4	44	7	40	13	50	32	41	14	34	10	35	7	36	15	33	8	33	8	33	8	33	8	33	8	33	8	33	8	33	8	33	8	33	8	
Manti	35	8	31	4	43	7	48	14	50	2	35	4	40	13	50	32	41	14	34	10	35	7	36	15	33	8	33	8	33	8	33	8	33	8	33	8	
Mount Nebo	35	8	31	4	43	7	48	14	50	2	35	4	40	13	50	32	41	14	34	10	35	7	36	15	33	8	33	8	33	8	33	8	33	8	33	8	
Mount Pleasant	32	3	36	0	38	5	48	11	48	2	36	4	38	7	40	13	50	2	35	4	40	13	50	2	35	4	40	13	50	2	35	4	40	13	50	2	
Provo	40	2	41	11	55	18	48	11	48	2	36	4	38	7	40	13	50	2	35	4	40	13	50	2	35	4	40	13	50	2	35	4	40	13	50	2	
Richfield	37	2	36	0	38	5	48	11	48	2	36	4	38	7	40	13	50	2	35	4	40	13	50	2	35	4	40	13	50	2	35	4	40	13	50	2	
Sedalia	50	2	50																																		
Scholar Summit	38	10	32	3	40	2	38	7	32	15	44	15	34	35	1	45	4	35	1	45	4	35	1	45	4	35	1	45	4	35	1	45	4	35	1		
Thistle	40	4	41	11	49	30	44	15	34	35	1																										

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES



DAILY PRECIPITATION FOR UTAH, FEBRUARY, 1904.

Sections and stations.	Day of month.																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine.....					.20			.35								.12																	0.	
Blue Creek.....						.20	T.						T.	T.	T.	.07				T.	.15	.50	.10							.15			1.	
Corinne.....							.05									.01					.05	.96	.06	.24	.04					.18	.55		2.	
Evanston, Wyo.....					.24		T.		.06				.05			T.	.23					.13	.14		.10	.05				*	.56		1.	
Farmington.....					.65	.15			T.							.70					T.	.34	.75	.20						.80		3.		
Ft. Duchesne.....									T.					.10	.04		.82				T.	*	.74	*	.30					*	.40		0.	
Hobart.....					.25	.15	.05	.15									.82					.28	.46	.25							.87		3.	
Henefer.....					.18	.06	.23	.01	.27		T.			.05		.15	.16	.17			T.	*	.74	.22	.03				T.				3.	
Huntsville.....					.12		.33	.16							.05	.74					.38	.91	.16	.22	.02	T.			.88				3.	
Kelton.....					.10	*	.05	.19					*						1.00	*	1.09	.05	.05	*	.79	*		.38	*				3.	
Logan.....					*	*	.25							.57					*		*	.37	*	*	.26	*	*		.80				2.	
Moab.....					T.		T.				T.			.10		.30	.40				T.	.20	1.90		.10	.90				.80			4.	
Millville.....						.11	.05	.04			T.			.16		.39					.16	.37	.12							.87			3.	
Morgan.....					.19	.03	.30		.18				T.			.12	.18	.20			T.	.19	.49		.28	T.				.80			2.	
Oakley, Idaho.....				.10								T.									.20	.05	.60						T.				0.	
Ogden No. 1.....					.08	.05	.09	.03								.21	.27	.12				.21	.89		.25	T.				.07	.52		2.	
Ogden No. 2.....																						*		.22						.70			†	
Park City.....					.80	.30	.60	.30	.10		T.		.20		.10	.40	.10				.40	.50							T.	1.20		5.		
Pocatello, Idaho.....					.06		.05	.02	.02		T.	.08	.04	.01	.30	.63				T.	T.	.01	.19	.24	.09	.16			.10	T.			2.	
Promontory.....					.10																.05												0.	
Salair Beach.....					.16											.46					.07	.20	.15						.71			1.		
Salt Lake City.....					.36	.09	.01		.05		T.	T.	.01	.01	.01	.27	.25			.01	.05	.26		.12	T.			.01	.75			2.		
Snowville.....					.10		.20							.10		.16					.20	1.06		.09	.34								2.	
Terrace.....						.10	T.									T.					.20	.20	T.						T.				0.	
Tooele.....					.41		.02	.02	.03							.56						T.			.11				*	.95			2.	
Vernal.....																																		2.
Weston, Idaho.....					T.		.08	.02	.20			T.			.29	.48				.07	.12	.45		.09	.44			.17	.32			2.		
Woodruff.....					T.							T.										.75						.10	.80			1.		
MIDDLE.																																		
Black Rock.....						.45	T.	.07							T.						T.									.06			1.	
Callao.....					.12										*	.20						.01							.50				0.	
Castle Dale.....																																		0.
Cisco.....								.15	.04							.03	.34						T.							.09			0.	
Deseret.....					.10											.12															.75			†
Emery.....																T.							T.	T.										0.
Fillmore.....					.13	.28	T.	.01								.75						.06								.67			1.	
Garrison.....					.15	.07		*	.07						*	.26					T.	T.	T.						T.	1.01			1.	
Government Creek.....					*	.63		*	.09						*	.47				T.	*	.04	*	.05					*	.96			2.	
Grand Junction, Colo.....					T.	T.		.40	.01						T.	.27							.03							T.			0.	
Green River.....											T.					.35																	0.	
Ibapah.....					.20										.28								.01	.01					.50	.75			1.	
Levan.....					.22	.20	.05	.15	.12						T.	.44						.05	*	.04					*	.66			1.	
Manti.....						.30		.30	.05						*	.50					*	.08											1.	
Mount Nebo.....					.92		T.								.03	.47					.05		T.	.03					T.	.78			2.	
Mount Pleasant.....					.30		.30	.10							.51						.18	.07							.25				1.	
Provo.....					.35	.10	T.	.05	.02					T.		.38	.25				T.	.07	.21		.09				.75				2.	
Richfield.....						.05		T.							.10							.01	.01							.03			0.	
Scipio.....					.27		.09	.04							T.	.67					T.		.03						.64	T.			1.	
Soldier Summit.....					.10	.05	.10	.05	.10							.25						.20	.15	.10						.20			1.	
Thistle.....					.20		.05									.20		.10	.20			.30	.20	.10					.20				1.	
Wellington.....															.02					T.													0.	
SOUTHERN.																																		
Aneth.....																															.07		0.	
Coyote.....					T.			.01								T.	.01												.06	T.			0.	
Escalante.....																																		0.
Frisco.....					.27			.04								.24						.02									.07			0.
Giles.....							T.	T.																						T.			†	
Grover (near).....					T.		T.	.10								T.						T.		T.						.30			0.	
Hite.....							T.	.10																							.20			0.
Kanab.....					T.											1.00											T.							1.
La Sal.....																																		0.
Loa.....						.20										.01														.30			0.	
Lund.....					.20	.10	.05	.20	.20						.01	.01														.10			0.	
Marysville (near).....					.02	.06	.02	.22	.08						.01	.21							.01	T.						.18			0.	
Minersville.....					.50		.50	.10								.40														.20			1.	
Moab.....					.03		.03	.10								.22								.03	T.					T.			0.	
Modena.....					.49		.01	.04								T.	.20													.27			1.	
Monticello.....						T.	T.							.04															.05				0.	
Parowan.....					.02	.10	T.	.14							.07	.55														.58			1.	
Pinto.....				</																														

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

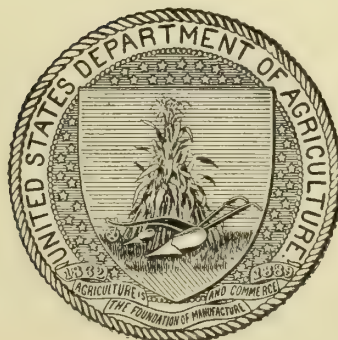
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

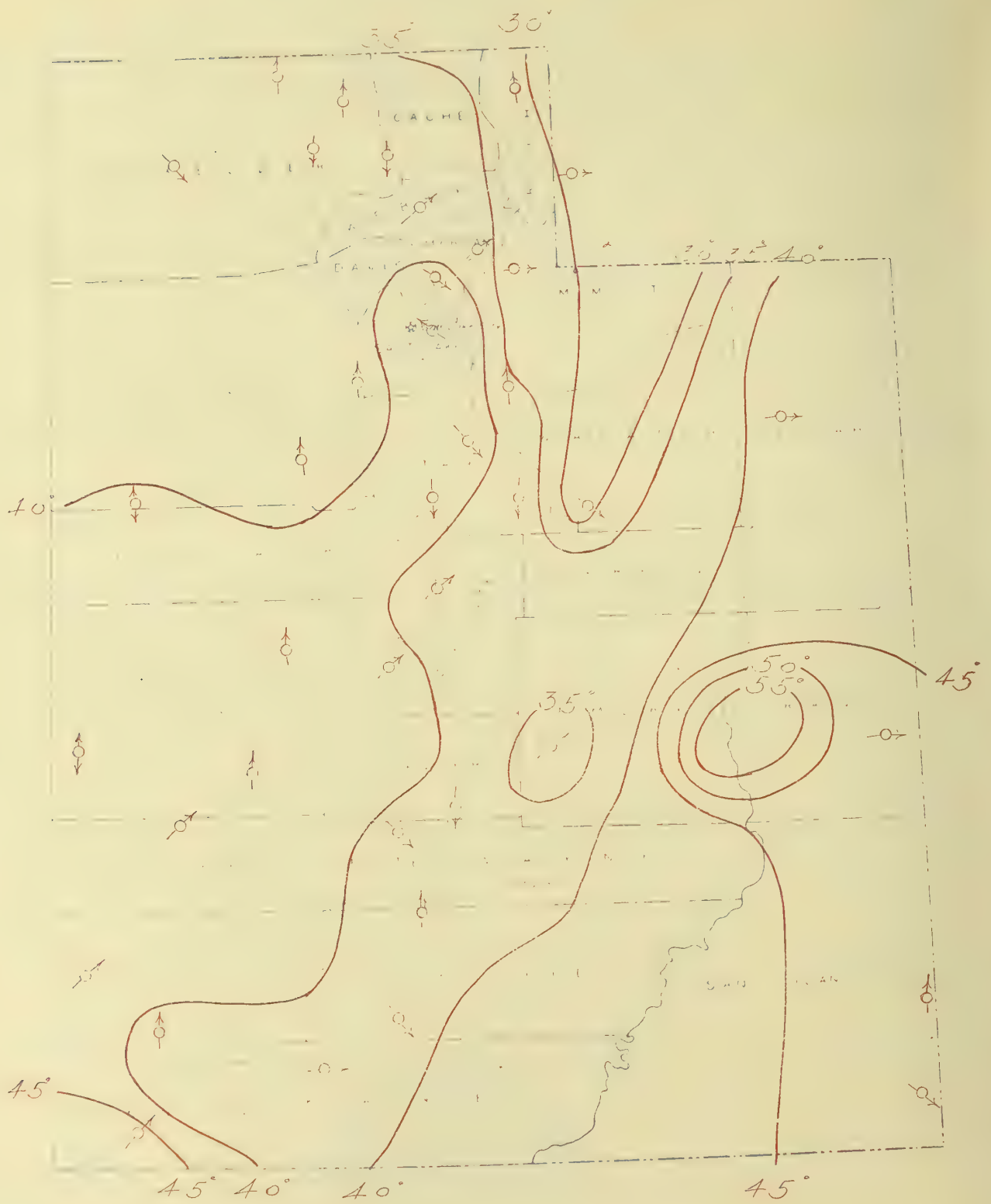
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
APRIL 21, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

March, 1904.

No. 5.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 39.9°, or 1.6° above the normal. The highest local monthly mean was 57.6° at Green River; the lowest was 27.3° at Soldier Summit. The highest temperature recorded was 90° at Green River on the 14th; the lowest was 10° below zero at Ranch on the 22nd; giving an absolute range for the section of 100°. The greatest daily range for any station was 57° at Green River on the 5th. The highest temperatures of the month were recorded, as a rule, on the 6th, 7th, 19th and 20th; and the lowest occurred from the 21st to the 26th.

PRECIPITATION.

The average precipitation, determined from the reports of 61 stations, was 2.33 inches, or 0.91 inch above the normal. The excess was general over the State, being more than double the average in the northern portion, and rapidly decreasing southward. The greatest monthly amount was 7.85 inches at Park City, and the least was a trace at Emery and Tropic. The greatest rainfall in any 24 consecutive hours was 1.84 inches at Ranch on the 23rd. The precipitation fell in the form of snow, rain and hail—snow prevailing in the mountains generally.

WIND AND WEATHER.

The prevailing direction of the wind was south. The total number of miles recorded at Salt Lake City was 5,452; at Modena, 9,963; at Grand Junction, Colo., 5,152; and at Pocatello, Idaho, 8,557. The maximum velocity at Salt Lake City was 48 miles per hour from the west on the 23rd; at Modena, 63 miles from the southwest on the 20th; at Grand Junction, Colo., 33 miles from the south on the 11th; and at Pocatello, Idaho, 46 miles from the southeast on the 10th.

The average number of clear days for the State during the month was 12; partly cloudy days, 10; cloudy days, 9. Determined from automatic sunshine recorders, Salt Lake City had 43 per cent; Modena 73 per cent; Grand Junction, Colo., 61 per cent; and Pocatello, Idaho, 44 per cent of the possible amount of sunshine. Determined from eye observations, Grover had 47 per cent of the possible amount.

The mean relative humidity for the month at Salt Lake City was 64 per cent, the lowest observed reading being 25 per cent on the 22nd; at Modena, 56 per cent, the lowest observed reading

being 12 per cent on the 9th; at Grand Junction, Colo., 51 per cent, the lowest observed reading being 22 per cent on the 13th; at Pocatello, Idaho, 64 per cent, the lowest observed reading being 40 per cent on the 22nd.

There was an average of 9 days with .01 inch or more precipitation; 13 over the northern, 8 over the middle and 6 over the southern portion of the State.

FARMING OPERATIONS AND CROP CONDITIONS DURING MARCH

Active farming operations were begun, and in many southern counties spring grain was coming up. Winter grain and the range were making fine showings. Water prospects were much improved generally by the March precipitation. In the north portion the absence of frost permitted the ground to become well saturated, but in the south irrigation was necessary before the ground could be worked. Stock wintered well. Sheep were being sheared during the latter part of the month.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF MARCH, 1904.

An excellent water supply is assured over the north half of the State. The heavy rains and snows during March were driven into the mountains by high winds, and the snow in the canyons is now packed almost as solid as ice. Practically the whole month's precipitation was retained in the mountains. The precipitation was much less southward, as has been the case for the entire winter. The chief snow supply over the southern half of the State fell this month. The middle section received a normal March amount, while in the south the mountains are practically devoid of snow. The ground is well soaked and will need no irrigation for several weeks, except at the extreme south.

During the rainy weather in the latter part of the month snow slides in the canyons were frequent, causing considerable inconvenience in many instances by blockading roadways. It is reported that many bits of scenery were shifted or entirely torn away by the avalanches.

ADDITIONAL MOUNTAIN STATIONS.

The following additional rainfall stations in the mountain districts have been supplied with rain gages: Sunnyside, Clear Creek, Castle Rock, Indianola, Payson City and Panguitch.

GREAT SALT LAKE.

The stage of the water on March 1st was 2 feet and 5 inches below the zero of the gage, and on March 15th was 2 feet and 2 inches below. On April 1st the reading was 1 foot and 7 inches below zero, which shows a rise of 10 inches during March.

A new gage was installed during the month by the U. S. Geological Survey, in co-operation with the Weather Bureau.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halo, solar.—Meadowville, 5.

Fog.—Marysvale, 31; Pinto, 2.

Halo, lunar.—Government Creek, 28; Lund, 26.

Corona, lunar.—Government Creek, 29, 30; Lund, 27; Marysvale, 1.

Frosts, killing.—Aneth, 22; Fort Duchesne, 12, 13, 22, 26; Salt Lake City, 5, 16, 26.

Sleet.—Coyoto, 20; Giles, 30; Government Creek, 15, 23, 30; Grover, 19, 20, 29; Heber, 23, 28; Henefer, 2, 8, 23, 30; Huntsville, 4, 8, 10, 11, 14, 23; Levan, 4, 11, 23, 28, 29; Marysvale, 20, 22, 29; Meadowville, 1, 10, 23, 30; Mount Nebo, 30, 31; Ogden, 23, 30; Pinto, 11, 23; Provo, 20; Woodruff, 14, 20, 23, 29, 30.

Hail.—Alpine, 9; Black Rock, 20, 23, 29–31; Callao, 2; Farmington, 28; Fort Duchesne, 23; Giles, 9, 24; Government Creek, 15, 20, 23, 30, 31; Henefer, 2, 8; Levan, 2, 11, 23, 25, 28–30; Lund, 29, 30; Marysvale, 20, 22, 24, 28, 29; Meadowville, 1; Moab, 9, 20; Modena, 11, 23, 30; Ogden, 23; Pinto, 11, 23, 25; Provo, 8, 20, 30.

Thunderstorms.—Alpine, 9, 28; Black Rock, 9, 23, 28–30; Cisco, 20, 23; Deseret, 28–30; Farmington, 28; Frisco, 30; Garrison, 8, 28; Government Creek, 23, 28, 29; Heber, 8, 20; Henefer, 8, 20, 23, 29; Huntsville, 20, 23, 28; Levan, 9, 28–30; Marysvale, 22, 30; Meadowville, 8, 9, 20, 23; Moab, 20, 23, 29; Mount Nebo, 9, 29; Modena, 28; Morgan, 9, 20, 23, 29; Ogden, 9; Provo, 8, 20, 30; Salt Lake City, 8, 20, 23, 29, 30; Snowville, 23.

High winds.—Aneth, 2, 4, 8–12, 20, 23–25, 26, 30; Black Rock, 8, 10, 17, 19, 22; Callao, 20; Cisco, 4, 8, 11, 20, 23; Coyoto, 4; Deseret, 1, 2, 4, 8, 10, 17, 20–24; Emery, 2, 4; Fort Duchesne, 2; Frisco, 8, 10, 11, 19, 22–24; Garrison, 10, 20, 22, 23; Giles, 23; Government Creek, 2, 10, 17, 21, 22, 25, 31; Grover, 1, 2, 4, 8–12, 19, 23–25; Heber, 4, 23; Henefer, 1, 4, 10, 11, 23, 25, 29, 30; Lund, 1, 2, 4, 8, 10, 11, 15, 20–24, 28; Marysvale, 10, 11; Meadowville, 2, 24; Moab, 2, 3; Monticello, 23, 29; Mount Nebo, 23; Morgan, 2; Ogden, 20, 23; Parowan, 20; Pinto, 19, 23; St. George, 19, 20, 31; Salt Lake City, 2, 4, 8, 10, 18, 20, 22, 23, 25, 29, 30.

OBSERVERS' REMARKS.

Aneth.—A windy month, with numerous storms, but very little precipitation. The country is dry.—H. R. Antes.

Black Rock.—An uneven month, with many cloudy and partly cloudy days and threatening storms, but not very much precipitation.—Willard Burbank.

Castle Dale.—We have had harder winds during the present month than for several years past. I do not think the fruit is killed.—James Jeffs.

Deseret.—March has been a record-breaker for precipitation and cloudy weather. The soil is well soaked and farm work is at a standstill. The outlook is quite good for crops.—Samuel W. Western.

Emery.—Another dry month; dry and dusty everywhere.—H. C. Wickman.

Fort Duchesne.—River clear of ice on the 4th; grass began to sprout on the 10th; farmers on the Indian Reservation began plowing on the 18th.—Ferdinand Rohricht.

Frisco.—A windy and stormy month; the light snows have been of great benefit to the range; sheep are in excellent condition.—S. N. Slaughter.

Garrison.—The month has been favorable for farm work; irrigation has not been necessary, storms being frequent, with little evaporation.—E. M. Smith.

Giles.—A cold, backward spring; fall wheat is up and looking well; there is an increased acreage sown to wheat and oats; apricots have been killed by spring frosts.—John C. White.

Government Creek.—The stormiest March in years; very little farm work done; everything is wet and cold.—Walter James.

Grover.—A windy, cloudy, squally month; some little snow fell in the mountains.—Henry Cullum.

Heber.—A very stormy month; most rainfall of any month of the winter.—John Crook.

Henefer.—The wettest march on record; too wet to do any farm work.—William Brewer.

Huntsville.—A very stormy month; roads almost impassable.—Lars Petersen.

Levan.—A stormy month; the ground has had a thorough soaking to the depth of about 3 feet.—Wm. Brown.

Marysvale.—Latter part of month wet and blustery; ground well soaked.—Geo. T. Henry.

Meadowville.—This month has been one of the wettest on record, and on the whole very mild; hay is all gone, but the grass is well advanced.—J. S. Moffatt.

Monticello.—High wind on the 23rd did some damage.—John Bailey.

Mount Nebo.—The last two weeks of March were very wet and farm work was retarded, although considerable grain has been sown; the roads are impassable; the water supply has been greatly increased.—D. C. Walkey.

Park City.—The fall of snow has been exceptionally heavy this month, and is well drifted and packed in the hills; there were several snow slides, but none serious.—Jas. H. Hance.

Parowan.—A very fine month; considerable grain has been sown; the snow during the latter part of the month has soaked the ground thoroughly.—James Connell.

Ranch.—The storms during the latter part of the month delayed farm work, and little sowing has been done; the last of the month was cold and blustery.—J. W. Seaman.

St. George.—On the 11th there was more snow on Pine valley mountains than at any time during the past winter.—J. G. Bleak.

Scipio.—The wettest month in five years, and farmers are now more hopeful.—Thos. Memmott.

Woodruff.—The month came in stormy and continued stormy throughout the month; the roads are in bad condition; the prospects for water are fine; the wettest March remembered by old settlers.—Thos. Ashton.

Comparative Temperature and Precipitation Data for March During the Past Thirteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	40.0	83	4	1.52
1893	35.6	87	—19	2.05
1894	36.6	85	—22	1.66
1895	37.0	87	—15	1.24
1896	38.0	88	—7	0.99
1897	32.0	79	—16	2.22
1898	34.2	80	—14	1.24
1899	38.5	84	—3	2.46
1900	43.9	86	6	0.19
1901	36.8	78	—2	0.84
1902	34.9	73	—9	1.28
1903	37.3	80	—32	1.19
1904	39.9	90	—10	2.33

CORRECTIONS FOR THE JANUARY REPORT.

Page 5: Blue Creek—Maximum temperature recorded on 1st should be 1st and other dates. Castle Dale—Mean temperature recorded 20.9°, departure —5.9°, should be 17.7°, departure —9.1°. Escalante—Maximum temperature recorded on the 15th should be 15th and other dates. Woodruff—Mean temperature recorded 17.8°, should be 13.0°. Wellington—Minimum temperature recorded —4° on the 1st and other dates, should be —7° on the 25th.

FEBRUARY REPORT.

Page 5: Pocatello, Idaho—Greatest 24-hour precipitation should be 0.81; mean monthly temperature should be 33.1°, departure +10.1°. Page 6: The mean maximum temperature should 40.7°.

LATE FEBRUARY REPORT.

Escalante: Mean temperature, 36.4°; highest, 69° on the 25th; lowest, 2° on the 10th; greatest daily range, 40°. Total precipitation, 3.08; greatest in 24 hours, 3.00; number of rain days, 3; clear, 8; partly cloudy, 13; cloudy, 8; direction of the wind, from west.

CLIMATOLOGICAL DATA FOR UTAH, MARCH, 1904.

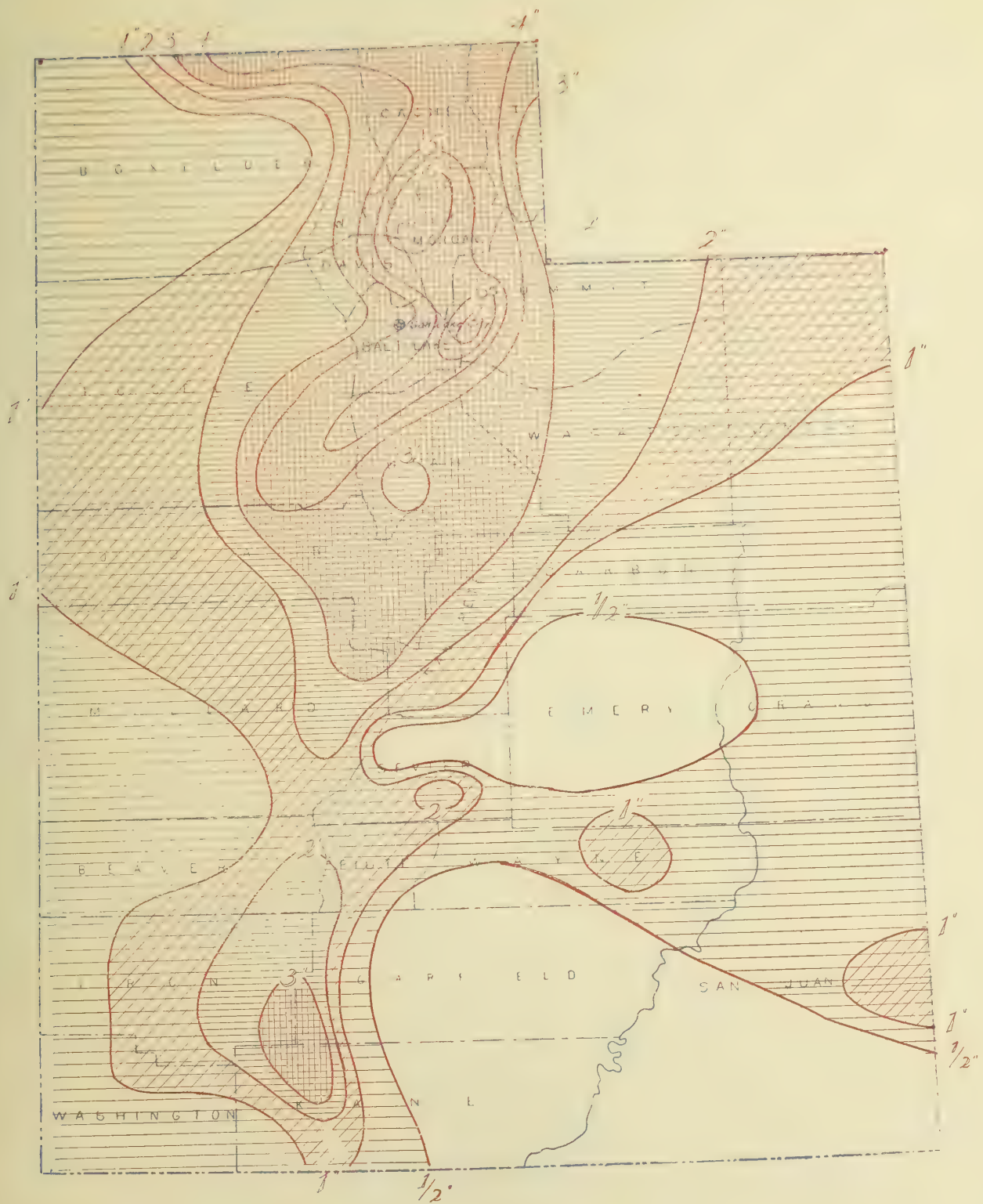
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
NORTHERN.																					
Alpine	Utah	4,900	8								5.15	+3.97	1.82		6					T. B. Whitby.	
Blue Creek	Box Elder	4,387	26	39.2	-0.8	52	17	27	*3	16	1.15	+0.75	0.25	2.0	7	6	0	25	s.	Agent So. Pacific Co.	
Corinne	Box Elder	4,240	34	38.3	-1.5	65	7	14	12	31	4.15	+2.90	0.80	11.0	14	0	5	26	n.	W. E. Johnson.	
Evanston, Wyo	Uinta	6,959	38	27.8	+0.3	49	7	6	3	46	2.60	+1.16	0.58	8.5	14	9	8	11	sw.	Frank Tucker.	
Farmington	Davis	4,267	4	10.2		61	8	16	12	29	5.26	+3.91	0.93	26.0	17	5	9	17	nw.	Charles Boylin.	
Ft. Duchesne	Uintah	5,000	16	40.4	+5.8	82	19	9	13	50	1.10	+0.53	0.56	5.7	8	15	7	9	w.	Ferdinand Rohricht.	
Heber	Wasatch	5,066	11	35.8	+3.3	62	19	10	12	36	3.48	+1.33	0.60		18	5	3	23	s.	John Crook.	
Hemmer	Summit	5,301	5	31.9	-2.3	61	7	9	*12	36	4.61		0.70	12.8	19	6	4	21	w.	William Brewer.	
Huntsville	Weber	5,100	9								6.43	+4.10	1.45	26.0	15	5	6	20	nw.	Lars Petersen.	
Kelton	Box Elder	4,230	26																	Agent So. Pacific Co.	
Logan	CACHE	4,507	13	36.5	+2.5	60	7	10	12	30	3.13	+1.42	1.00		10					James Dryden.	
Mea lowville	Rich	6,200	5	30.0		49	7	6	3	38	4.50		0.90	16.5	16	7	3	21	s.	J. S. Moffat.	
Milville	CACHE	4,818	9								1.02	+2.21	0.65		19					Fred Yeates.	
Morgan	Morgan		1	35.6		61	7	8	26	32	5.17		0.85		20	12	9	10	sw.	T. R. G. Welch.	
Onkley, Idaho	Cassia	4,191	11	36.6	-0.5	64	6	19	22	30	2.30	+1.32	0.80	4.0	10	6	8	17	s.	Thomas Adams.	
Ogden No. 1	Weber	4,310	3	39.0		60	7	17	24	27	6.54		1.14	17.2	16	8	9	14	se.	Enoch Farr.	
Ogden No. 2 + 3	Weber	4,310	31	40.5	-0.7	63	7	24	3	29	5.57	+4.00	1.23	13.8	12	3	5	23	s.	W. H. Chevers.	
Park City	Summit	6,846	7	34.6	+5.4	59	19	7	12	36	7.85	+1.32	1.50	78.5	15					J. H. Hance.	
Pocatello, Idaho	Bannock	4,188	4	36.9	+2.6	56	7	20	22	28	4.00	+1.80	0.88	11.8	21	1	13	17	e.	Weather Bureau.	
Promontory + 1	Box Elder	4,913	34	35.5	-2.3	58	8	20	12		0.55	-0.21	0.20	4.5	5	11	0	20	n.	Agent So. Pacific Co.	
Saltair Beach	Salt Lake			40.5		60	*6	22	12	21	2.73		0.72		14					Francis W. Bailey.	
Salt Lake City	Salt Lake	4,306	30	40.7	-0.9	63	6	19	12	32	3.99	+1.96	0.75	17.2	18	9	8	14	se.	Section Center.	
Snowville	Box Elder	4,360	14	35.6		59	7	17	12	28	4.35	+3.01	1.29		16	2	15	14	s.	Joseph Robbins.	
Terrace	Box Elder	4,559	31	37.4	-3.1	61	*6	18	27	29	0.60	+0.12	0.30	1.0	4	4	23	4	nw.	Agent So. Pacific Co.	
Tooele	Tooele	4,900	8	39.6	+1.1	63	19	14	24	27	4.25	+2.64	1.03		14	10	7	14	s.	I. J. Elkington.	
Weston, Idaho	Oneida	4,460	6	34.6	+1.3	60	7	10	26	28	4.28	+2.73	0.60	13.5	17	2	8	21	s-sw	William Chatterton.	
Woolf	Rich	6,500	7	30.0	+3.1	55	9	2	12	35	2.65	+1.42	0.50	14.0	10	10	6	15	w.	Thomas Ashton.	
Averages				37.1	+0.3						3.96	+1.55		17.6	13	7	7	17	s.		
MIDDLE.																					
Black Rock	Millard	5,802	4	42.4		76	28	11	24	44	0.93		0.25	3.5	6	8	15	8	s.	Willard Burbank.	
Callao	Juab		2	42.4		75	19	11	3	48	1.16		0.40	2.5	7	8	13	10	n-s	E. E. Edwards.	
Castle Dale - T 3	Emery	5,500	5	39.3		78	20	2	26	54	0.45		0.15	0.0	4	14	17	0	s.	James Jeffs.	
Cisco	Grand	4,385	12	46.0	+4.6	74	19	12	13	50	0.81	+0.30	0.50	2.0	4	12	19	0	w.	H. T. Matthews.	
Doseret	Millard	4,541	10	40.2	+0.4	70	*19	11	24	42	1.55	+0.75	0.31		9	5	7	19	s.	S. W. Western.	
Emery	Emery	6,260	4	34.8		65	*7	11	12	38	T.		T.		0	0	8	23	sw.	H. C. Wickman.	
Fillmore	Millard	5,100	14	42.4	+2.6	70	19	14	24	35	2.16	+0.34	0.32		10					J. J. Starkey.	
Garrison	Millard		1	42.3		71	19	14	1	42	0.62		0.36	T.	4	11	16	4	s-n	E. M. Smith.	
Gov. mt. Creek	Tooele	5,277	4	38.9		75	10	5	24	48	4.94		0.97	15.5	14	6	15	10	s.	Walter James.	
Grand Junction, Col.	Mesa	4,068	13	44.9	+2.1	73	8	18	26	39	0.62	-0.21	0.25	1.2	6	5	16	10	nw.	Weather Bureau.	
Green River	Emery	4,080	7	57.6	+12.8	90	14	20	5	57	0.48	+0.20	0.28		3	11	5	15		J. T. Farrer, Jr.	
Ibapah	Tooele		1	37.4		67	19	11	22	43	1.49		0.35	7.5	6	3	8	20		Owen Sheridan.	
Levan	Juab	5,010	14	38.0	+2.4	65	19	15	24	34	3.25	+1.27	1.41	11.1	12	7	13	11	sw.	William Brown.	
Manti	San Pete	5,575	10	39.1	+1.7	65	20	13	26	35	1.71	+0.05	0.60		4	0	15	16		W. M. Harmon.	
Mt. Nebo	Utah	4,650	3	41.1		67	19	16	24	34	2.83		0.76	5.0	13	9	14	8	n.	D. C. Walkey.	
Mt. Pleasant	San Pete	5,859	12	38.4	+1.7	65	19	12	24	37	2.20	+0.62	0.85		6	3	28	0		Web Greene.	
Provo	Utah	1,532	12	40.8	+1.5	67	6	15	26	36	3.75	+2.41	1.11	9.0	16	6	16	9	nw.	Caleb Tanner.	
Richfield	Sevier	5,323	14	41.8	+2.4	71	18	8	24	48	0.10	-1.13	0.05	0.5	5	8	7	16		J. M. Lauritzen.	
Scipio	Millard	5,260	9	40.3	+3.7	78	19	12	23	48	3.21	-1.02	0.69	13.0	13	1	5	25	sw.	Thomas Memmott.	
Soldier Summit - P 10	Utah	7,174	12	27.3	-0.6	55	19	4	*12	41	2.98	+1.00	1.20	29.8	11				nw.	Agent Rio Grande R. R.	
Thistle	Utah	5,475	12	38.0	+1.1	70	19	3	25	47					10	0	21		n.	J. H. Mitchell.	
Wellington	Carbon	5,540	5	36.7		70	7	5	*12	53	0.55		0.49	0.5	3	11	4	16		E. E. Branch.	
Averages				40.2	+1.8						1.76	+0.62		7.1	8	7	12	12	s.		
SOUTHERN.																					
Aneth	San Juan	4,800	4	47.4		75	2	14	13	47	0.10		0.07		2	13	14	4	w.	H. R. Antes.	
Coyote	Garfield		3	37.4		61	*7	0	24	45	0.05		0.03	0.5	2	9	7	15	s.	H. J. McCullough.	
Escalante	Garfield	5,700	4																	W. G. Bleak.	
Experiment Farm	Washington			51.6		78	19	24	*24	43						12	10	0		Joseph T. Atkin.	
Frisco	Beaver	7,318	10	40.4	+2.7	67	14	11	21	41	0.97	+0.35	0.26		8	7	10	14	sw.	S. N. Slaughter.	
Giles	Wayne	4,000	9	40.4	+2.3	70	19	8	13	42	1.10	+0.94	0.60		3	20	8	3		J. C. White.	
Grover (near)	Wayne	5,800	8	39.5	+4.0	69	2	10	24	43	0.35	-0.19	0.30	3.5	2	9	13	9	w.	Henry Cullum.	
Hite	Garfield	3,600	5	51.7		78	7	20	20	49	0.45		0.20		3	3	19	4		F. W. Gibbons.	
Kanab	Kane	4,925	4	39.5		74	20	10	22	53	1.01		1.00		2	15	0	16		E. M. Ford.	
La Sal	San Juan	7,000	4																	Mrs. G. W. Carpenter.	
Loa	Wayne	7,000	4																	Michael Hansen.	
Lund - T 3	Iron	5,092	4	42.4		73	8	12	4	41	1.90		0.95	3.1	10	16	7	5	ne.	B. R. Transeau.	
Marysville (near)	Piute	6,180	5	39.8		67	*6	8	23	46	1.99		0.69	13.0	10	7	10	14	nw.	G. T. Henry.	
Minersville	Beaver	5,070	7																	R. W. Dotson.	
Moab	Grand	4,000	15	48.8	+3.0	79	19	18	13	43	0.90	+0.10	0.43	0.5	7	10	5	16		Henry Crouse.	
Modena	Iron	5,479	4	40.8		66	6	11	24	36	0.98		0.36	1.5	10	13	14	4	sw.	Weather Bureau.	
Monticello	San Juan	7,280	2	48.9		71	23	20	13	40	1.53		0.69	17.0	4	15	6	10	s.	John Bailey.	
Parowan	Iron	5,970	13	41.7	+3.8	70	19	8	24	40	2.11	+0.33	0.93	18.1	10	7	17	7	sw.	James Connell.	
Pinto	Washington	5,907	2	38.3	+4.3	67	7	1	25	40	1.72	-0.13	0.55		9	9	10	10	s.		

WILLIAMS.

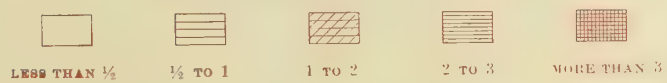
Boldface figures indicate temperatures below zero.

Boldface figures indicate temperatures below zero.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, MARCH, 1904.

Sections and stations.	Day of month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine.....									1.60		.61				.40					.38			.34					1.82		T.			5.1	
Blue Creek.....			.20					.10		.10										.20			.20				.25		.10				4.1	
Corinne.....			.47				T.	.80		.16	.15	.17			.50	.05			.15	.08	.12	.06	.27	.28		.30	T.	.05		.38	.16		1.1	
Evans, Wyo.....		.25	.12					.27	.31		.30				.12				.8	.24			.19		.12	.10	T.	.06		.26	.08	T.	2.6	
Farmington.....		.05	.40					.64	.93		.51				.50	T.			.13		.30		.30	.20	.40	.04	.10	.13	.18	.10	.35	T.	5.2	
Ft. Duchesne.....								.02			.02									.15			.02	.06	.01				.26	T.	.56		1.1	
Heber.....		.02	.03					.60	*	.60					*	.20				.25	*	.40		*	.15	*	.03	.16	*	1.04			3.4	
Henefer.....		.25	.13					.16	.70	.05	.35				.53			T.	.10	.11	.38	.02	.65	.10	.17	.04	.03	.17	.60	.07	T.	4.6		
Huntsville.....	.03	.12	.50					1.45		.17	.12	.03		.54					.49	.10	.60		.97		.58			.62	.11	T.		6.4		
Kelton.....																																		
Logan.....		T.	.37					1.00		.03						.07				.75			.78					.01	.12				3.1	
Mea lowville.....	*	.50	.30			.10	*	.50		.30					.14		*	.90	.10	.30	T.		.30		.10	.05	.10	.30	.20	.20	.15		4.5	
Millville.....		.03	.35			.09	.26	.48	.01	.07	T.			T.	.14		.06	.31	.11	.65	.07		.54	.10	.27		.08	T.	.06	.34			4.0	
Morgan.....		.18	.20			.02	.30	.85	.06	.11	T.				.58			.22	.11	.46	.02		.36	.06	.68	.02	.06	.18	.52	.08	T.		5.0	
Oakley, Idaho.....	T.	.10	.20			.10	T.	T.		.20				T.	.40		.15	.15	.10	T.		T.				.10	T.		.80	T.	T.	2.3		
Ogden No. 1.....	T.	T.	.60					.46	1.14	.02	.17			.12	.38			.14	.09	.53	T.		.57	.32	1.02			.12	.74	.12			6.5	
Ogden No. 2.....	T.	T.	.60					1.23		.05					.46				.22	.35			.53	.20	.65			.97	.16	.15			5.5	
Park City.....		T.	.20					.20	1.20	.30	.60				.50			.05	T.		.40		1.50	.80	.30	T.	.30		.80	.40	.30		7.8	
Pocatello, Idaho.....	.03	.10	.34	T.	T.	.34	.34	.04	.04	.23	T.			T.	.01	T.	.02	.88	.09	.77	.12	.03	.20	T.	.08	.03	T.	.01	.32	.08	T.	4.0		
Promontory.....								.05										.05					.05	.20		.20							0.5	
Saltair Beach.....		.03	T.					.20	.72		.44				.27				.02	.30			.08	.05		.02	.05	.31	.11	.13			2.7	
Salt Lake City.....		.10	.13				T.	.20	.75	T.	.47	T.			T.	.33			.02	.01	.40	.01		.28	.17	.20		.05	.02	.58	.26	.01	3.9	
Snowville.....			*	.28		.10		1.29		.11	.19				.44			.12	.15	.15	.25		.80		.10	.05	.05	.22	.05				4.3	
Terrace.....							T.	.30		T.					.10			T.	T.	T.			.10					.10					0.6	
Tooele.....		.11	.27					1.03			.27				.17				.03		.30	.02		.49		.08		.08		.97	.38	.05		4.2
Vernal.....																																		
Weston, Idaho.....		T.	.38					.29	.60	.12	.28				.18			.20	.32	.14	.53		.50	.03	.23		.05	.13	.20	.10			4.2	
Woodruff.....	.30	.50							.20						.30		T.						.30			.20		.20		.15			2.6	
MIDDLE.																																		
Black Rock.....			T.						T.	T.	T.										.10	.05		.15	T.				.14	.24	.25		0.9	
Callao.....		T.					.15							*	.25						.02			.02				*	.17	.15			1.1	
Castle Dale.....																							.10		.10			.10	.15				0.4	
Cisco.....									T.												T.					.16			.08	.07	.50			0.8
Deseret.....		T.		T.				.10			.31				T.						.22		.10	.02				.25	.20	.30	.05			1.5
Emery.....							T.			T.												T.							T.					T.
Fillmore.....			.06							.10					T.					.17	.02		.32	.08	.25				.61	.40	.15		2.1	
Garrison.....							*	T.		.36									.10	T.		.10	T.		.10			T.	.06	T.			0.6	
Government Creek.....		T.	*	.16				.10	.78	.03	.35			*	.52					.75	.07	*	*	.79	.25		.04	*	.97	.10	.03		4.9	
Grand Junction, Colo.....				T.				.01			T.								.20		.02		.10	T.				T.	.25	.06	.18		0.6	
Green River.....																				T.								.13	.07	.28			0.4	
Ibapah.....										.15					.12								.10	.15		.35			.62				1.4	
Levan.....	T.	T.	.06					T.	.09	T.	.19				T.	.05				.31	.11		.26		.24		.03	1.41	.34	.16	T.		3.2	
Manti.....			T.					T.	T.		*				T.	.26				*	.26		T.		.45	T.			.60		.40		1.7	
Mount Nebo.....		T.	.01					T.	.25	T.	.21				.10					.62	.05		.28	.14	.04		.04		.76	.27	.06		2.8	
Mount Pleasant.....											.18									.31			.22		.18			.85	.34		.30		2.2	
Provo.....		.05	.08					.23	.59	.01	.40				.34				T.	.18	.09		.34		.25		T.	.03	1.11	.04	.01		3.7	
Richfield.....																					.05	.05		.01				.04	.01				0.1	
Scipio.....							.09	T.	.07	.04				.02	T.				.06	.30	T.	.11	.45	.21	T.	T.	.69	.64	.33	.20			3.2	
Soldier Summit.....								.25	.25						.05					.20	.10		.25	.10	.18	.10		1.20		.30			2.9	
Thistle.....																																		
Wellington.....						.01																		.05				.49	T.				0.5	
SOUTHERN.																																		
Aneth.....						.07					T.	T.									T.	T.	.03		T.	.03					T.	T.	0.1	
Coyote.....																														.02	T.		0.0	
Escalante.....																																		
Frisco.....											.04	.02			T.						.21		.26	.10					.07	.22	.05		0.9	
Giles.....								T.	T.		T.				T.						T.	T.		.60	T.					.10	.40		1.1	
Grover (near).....			T.								.05										T.		T.		T.					.30			0.3	
Hite.....																							.15						T.	.20			0.4	
Kanab.....																																		1.0
La Sal.....																																		
Lea.....																					.30			.30						.20			0.8	
Lund.....											.10	.01									.05	.01		.25		.10			.15	.08	.95	.20	1.9	
Marys-vale (near).....			.02					T.	.03	T.	.11				T.	.40				.15	.24	.17	T.	.11				T.	.40	.69	.07		1.9	
Minersville.....																																		

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

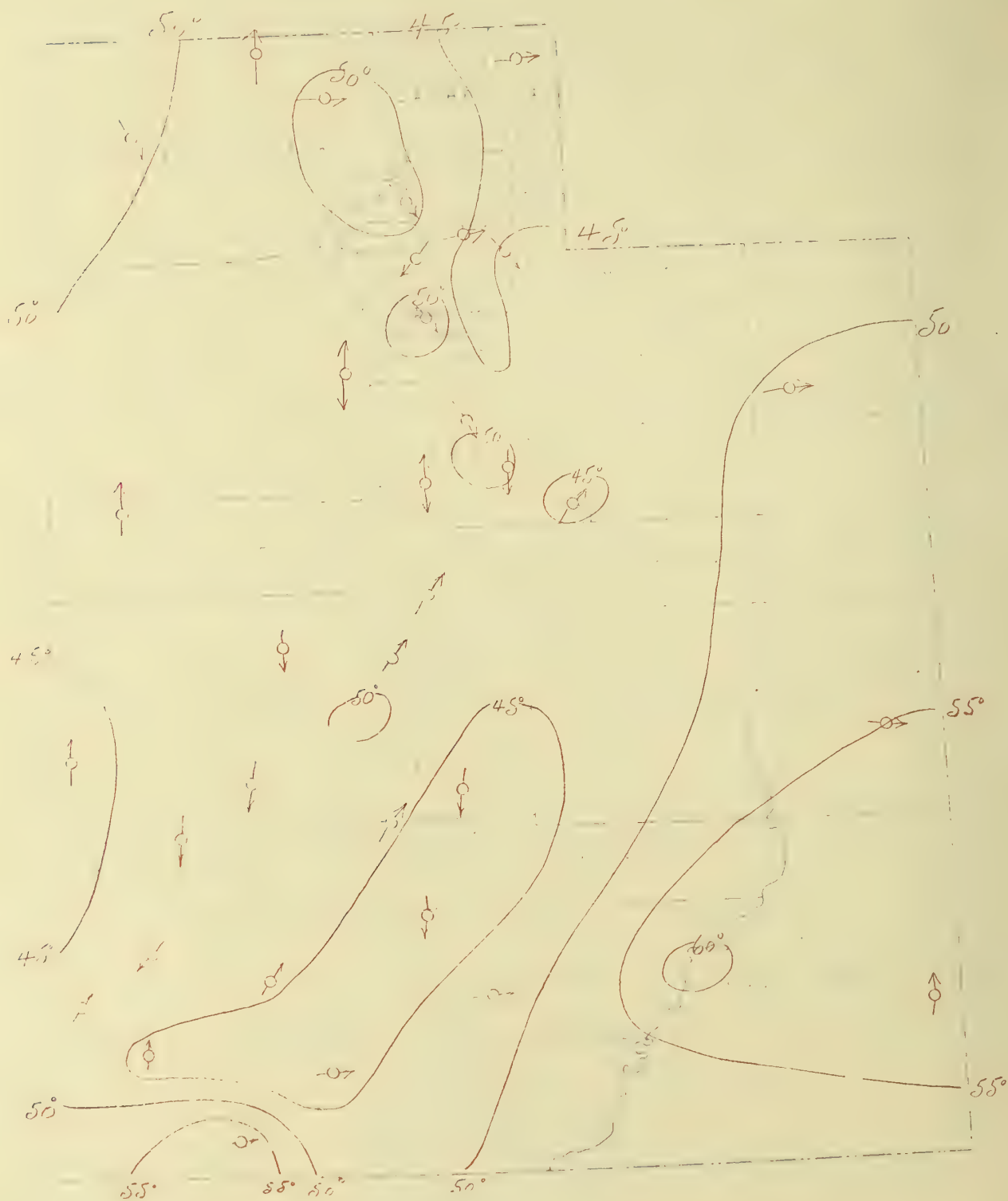
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MAY 25, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE
WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

Vol. VI.

April, 1904.

No. 6.

WEATHER.

The feature of the weather during the month was the severe snowstorm that prevailed throughout the section during the first three days of the last decade. In some localities in the northern half the snowfall was particularly heavy, notably at the Section Center, where the amount was far in excess of previous records for April. Otherwise the month presented no unusual characteristics, the temperature varying not much from normal, though the cloudiness was somewhat in excess. High winds were frequent, the Weather Bureau station at Modena reporting a maximum velocity of 60 miles per hour. Frosts were common, but not very severe.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 55 stations, was 48.2°, or 1.0° above the normal. The highest local monthly mean was 60.4° at Hite; the lowest was 39.6° at Soldier Summit. The highest temperature recorded was 94° at Hite on the 12th and 13th; the lowest was 10° at Loa on the 24th; giving an absolute range for the section of 84°. The greatest daily range for any station was 61° at Soldier Summit on the 12th. The highest temperatures of the month were generally recorded on the 12th and 13th; and the lowest on the 7th.

PRECIPITATION.

The average precipitation, determined from the reports of 58 stations, was 0.76 inch, or 0.26 inch below the normal. This deficiency extended to all portions of the section. The greatest monthly amount was 3.02 inches at Alpine; and the least, a trace at Emery, Hite and Tropic. The greatest rainfall in any 24 consecutive hours was 2.13 inches at Alpine on the 20th.

WIND AND WEATHER.

The prevailing direction of the wind was north. The total number of miles recorded at Salt Lake City was 5,185; at Modena, 9,182; at Grand Junction, Colo., 4,710; and at Pocatello, Idaho, 5,923. The maximum velocity at Salt Lake City was 37 miles per hour from the southeast on the 19th; at Modena, 60 miles from the southwest on the 26th; at Grand Junction, Colo., 34 miles from the northwest on the 6th; and at Pocatello, Idaho, 32 miles from the west on the 6th.

The average number of clear days for the State during the month was 16; partly cloudy days, 8; cloudy days, 6. Deter-

mined from automatic sunshine recorders, Salt Lake City had 66 per cent; Grand Junction, Colo., 76 per cent; and Pocatello, Idaho, 73 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 46 per cent, the lowest observed reading being 10 per cent on the 26th; at Modena, 43 per cent, the lowest observed reading being 8 per cent on the 12th; at Grand Junction, Colo., 46 per cent, the lowest observed reading being 16 per cent on the 14th, 16th and 26th; at Pocatello, Idaho, 53 per cent, the lowest observed reading being 15 per cent on the 12th.

There was an average of 3 days with .01 inch or more precipitation; 4 over the northern, 3 over the middle and 2 over the southern portion of the State.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Lightning.—Henefer, 15.

Corona, solar.—Tropic, 17.

Halo, lunar. Marysville, 23.

Coronae, lunar.—Government Creek, 27, 28; Marysville, 23.

Thunderstorms.—Aneth, 19; Meadowville, 19; Moab, 2, 23; Snowville, 15, 28.

Halos, solar.—Government Creek, 16; Levan, 2; Mount Nebo, 28, 30; Ranch, 30; Snowville, 18.

Sleet.—Henefer, 6; Huntsville, 21; Kanab, 20, 23; Levan, 20; Mount Nebo, 23; Woodruff, 21, 22.

Hail.—Aneth, 19; Government Creek, 20, 23, 28; Henefer, 6; Levan, 1; Meadowville, 19, 23; Moab, 2; Park City, 6; Snowville, 15, 28.

Killing frosts.—Aneth, 1; Deseret, 1, 5-9, 24, 25, 28-30; Farmington, 7, 8, 22, 24, 25; Government Creek, 28, 29; Henefer, 8, 18, 24, 29, 30; Kanab, 21, 22, 28; Levan, 21, 24; Marysville, 21, 22, 24, 28-30; Mount Nebo, 24; Morgan, 27-29; Parowan, 21; St. George, 1.

High winds.—Aneth, 1, 2, 6, 15, 16, 19, 20, 27, 28; Black Rock, 26; Cisco, 6, 19, 28; Coyote, 18, 19, 26, 27; Deseret, 3, 6, 14, 15, 18-20, 22, 26, 27; Frisco, 14, 15, 18-20, 26; Garrison, 6, 15, 18; Government Creek, 19-21, 26; Heber, 19, 27, 28; Henefer, 19, 26, 27; Levan, 26; Lund, 15, 18-22, 26, 27; Marysville, 19, 20, 26, 27; Mount Nebo, 15, 19, 26, 27; Mount Pleasant, 26; Meadowville, 6, 19, 27; Morgan, 18; Payson, 27; Scipio, 19, 20, 26, 27; St. George, 19, 20; Tropic, 20.

OBSERVERS' REMARKS.

Alpine.—Fine weather for small grain; fruit trees look well; the range is well soaked.—Thos. B. Whitby.

Aneth.—Fore part of month was very warm, but the latter part was colder than usual; soil is very dry; no damage by frost has been observed.—H. R. Antes.

Black Rock.—Fair growing weather prevailed during the month, although the nights were quite cold, with several frosts; some fruit killed.—Willard Burbank.

Deseret.—Plum and peach trees began to bloom about the middle of the month; fruit was nearly all killed by frosts; lucerne about 6 inches high, and garden truck coming up; trees are coming in leaf, and currant bushes and apple trees are in blossom.—Samuel W. Western.

Frisco.—A very dry and cold month; range is drying up; frost on 22nd, 23rd and 24th killed all the fruit at Wah Wah Springs.—S. N. Slaughter.

Government Creek.—The month was cold and backward.—Walter James.

Heber.—April was a cold and disagreeable month; freezing temperatures were frequent and damaging to fruit during the last decade; seven inches of moist snow fell on the 21st.—John Crook.

Henefer.—A cold month; precipitation below the normal; all crops are in need of warm weather.—William Brewer.

Huntsville.—The fore part of the month was warm, and good growing weather; the latter part has been colder and more stormy; fruit trees are budding.—Lars Petersen.

Marysvale.—The month was generally cloudy and windy; apricots, plums and peaches mostly killed during the last decade.—Geo. T. Henry.

Mount Nebo.—The month was cold and dry, with much high wind; fruit was not injured; lucerne made good growth, and spring grain coming up.—D. C. Walkey.

Meadowville.—This was a fine month for everything; grain is nearly all in, and lucerne is growing rapidly; winter wheat looks well.—J. S. Moffatt.

Parowan.—Latter part of the month was cold, with frequent heavy frosts, killing peaches, plums and apricots, and some apples.—James Connell.

Pinto.—The month was entirely favorable for farm work; early wheat and oats look well; frost did slight damage to patches of oats.—J. H. Harrison.

Ranch.—Cold, backward spring; but little progress made in crops; small grain all in.—J. W. Seaman.

Scipio.—A dry, cold month; everything making slow growth; fruit generally killed by frosty nights.—Thos. Memmott.

Tropic.—Early fruit blooms killed on the 20th by frost; spring very backward.—Edw. P. Bolton.

Woodruff.—Farming operations made rapid progress during the latter part of the month.—Thos. Ashton.

CROP CONDITIONS.

Farm work was rather backward until the last week of the month, when favorable weather enabled rapid progress to be made, and by the close the seeding of spring wheat was well advanced and in many localities completed. Beet planting was also under rapid headway. Fall wheat was looking well and coming up to good stands. Lucerne suffered some damage from the frosts, and a few fields were found to be winter-killed. On the whole, however, this staple was in good condition, and indications pointed to a large crop. Fruits, with the exception of apricots, were in good condition, and suffered little injury from frosts. Ranges were good, and stock was thriving. Sheep shearing was in progress at the close of the month, and the clip was satisfactory.

GREAT SALT LAKE.

The stage of the water on April 1 and 15th was 1.7 feet and on May 1, 1.6 feet below the zero of the gauge.

Comparative Temperature and Precipitation Data for April During the Past Thirteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	46.8	87	11	1.06
1893	44.4	88	1	1.15
1894	45.8	91	4	0.86
1895	49.2	94	5	0.58
1896	41.0	87	— 1	1.07
1897	47.0	93	6	0.89
1898	51.5	98	8	0.72
1899	48.2	90	11	0.58
1900	45.7	88	10	2.46
1901	46.2	89	0	0.69
1902	48.5	94	7	1.16
1903	46.0	95	4	1.01
1904	48.2	94	10	0.76

CORRECTIONS TO FEBRUARY REPORT.

Page 5: Corinne—Minimum temperature recorded 1° on the 2nd, should —2° on the 10th. Henefer—Mean temperature recorded 28.2°, should be 27.9°. Logan—Number of days missing recorded 2, should be 3. Garrison—Number of days missing recorded 1, should be 2; highest temperature recorded as occurring on the 24th, should be 22nd and other dates.

LATE MARCH REPORT.

Escalante: Mean temperature, 42.7°; maximum, 69° on 20th; minimum, 17° on 13th and other dates; greatest daily range, 39°; total precipitation, 1.55 inches; greatest in any 24 hours, 0.70 inch; rainy days, 5; clear days, 8; partly cloudy, 12; cloudy, 11; prevailing direction of the wind, west.

MONTHLY AND ANNUAL TEMPERATURE AND PRECIPITATION, ST. GEORGE, WASHINGTON COUNTY, UTAH.

From 1890 to 1903.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890.....	37.1	43.6	51.6	.....	.....	78.8	86.9	82.0	72.7	60.8	50.5	43.1	.....
1891.....	37.4	38.8	46.9	54.3	.....	71.6	82.0	82.0	71.1	61.7	50.6	36.0	.....
1892.....	37.8	.....	51.5	59.1	67.1	75.1	83.2	83.9	77.4	60.7	49.0	.....	.....
1893.....	41.2	43.6	50.2	56.8	67.1	75.9	78.3	82.8	72.2	57.7	45.2	40.8	59.0
1894.....	33.6	36.3	50.0	57.8	67.7	70.2	82.9	79.2	69.1	60.9	48.5	39.4	56.7
1895.....	34.1	40.9	47.8	57.6	66.1	72.5	79.8	80.5	70.2	57.3	42.7	31.8	57.9
1896.....	38.6	40.9	51.0	52.0	62.8	84.8	79.4	77.0	69.5	59.4	46.2	32.4	57.1
1897.....	36.8	36.6	41.0	56.0	69.2	75.1	80.4	81.6	72.8	57.0	46.2	32.4	57.6
1898.....	30.2	44.3	44.8	63.0	63.3	76.2	84.5	82.3	72.0	56.4	42.8	31.6	57.6
1899.....	37.5	42.2	48.1	56.6	60.0	74.1	82.2	72.8	72.5	54.8	46.9	36.4	57.0
1900.....	40.1	41.6	53.1	51.2	68.0	76.0	79.9	74.8	63.8	57.4	47.4	37.3	57.6
1901.....	36.9	42.3	46.4	54.2	65.4	71.6	82.8	79.8	67.6	60.4	47.5	35.7	57.6
1902.....	34.1	41.6	44.4	59.8	64.2	75.1	76.2	76.4	71.7	63.7	45.5	36.5	57.4
1903.....	35.7	31.7	48.7	56.4	65.6	75.9	77.6	79.5	66.7	56.2	44.8	33.6	56.3
Mean.....	36.8	40.3	48.2	56.5	65.5	75.3	81.2	79.6	70.9	58.9	46.2	36.4	57.5

PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890.....	2.97	1.05	1.47	.....	.....	0	0	0.15	1.20	0	0	0.55	.....
1891.....	0	2.15	0.10	0	.....	0	1.15	1.15	1.60	0	0	0.40	.....
1892.....	1.28	.....	0.82	0.15	0.20	0	0.11	0.12	0	0.48	0	.....	.....
1893.....	0.77	1.20	1.66	0.15	0.11	T.	0.81	0.61	T.	0.09	0.05	1.28	6.73
1894.....	0.21	0.40	0.18	0.01	0	0	0.26	0.49	0.01	0.06	0	1.90	3.55
1895.....	1.99	1.21	0.84	0.32	0.54	0.04	0.16	0	0.02	1.12	1.01	0.35	6.50
1896.....	0.40	0.10	0.15	0.03	0.71	0	2.98	2.59	6.12	0.11	0.26	2.00	7.05
1897.....	2.66	2.35	1.05	0.08	0.15	0	0.28	0.45	1.00	1.21	0.13	0.45	9.81
1898.....	1.15	0.56	0.44	0.60	0.93	0.39	0.05	0.71	0	0	T.	0.12	4.08
1899.....	0.32	T.	0.29	0.24	0.05	0.28	0.05	2.93	0	0.45	0.23	0.33	5.17
1900.....	0.05	0	0.27	2.07	0.46	0.20	0.16	0.51	0.29	0.54	0.89	0	5.44
1901.....	0.75	2.72	0.18	0.01	0.18	0	0.48	1.71	0	1.06	0	0	0.98
1902.....	0.73	0.77	1.35	0.36	0.23	0.03	1.82	1.23	0.29	0.10	1.49	0.39	8.79
1903.....	0.27	0.26	0.99	0.61	0.32	0	1.50	0.50	1.92	1.86	0	0.07	8.29
Mean.....	0.97	0.98	0.69	0.36	0.32	0.07	0.69	0.94	0.46	0.43	0.38	0.46	6.75

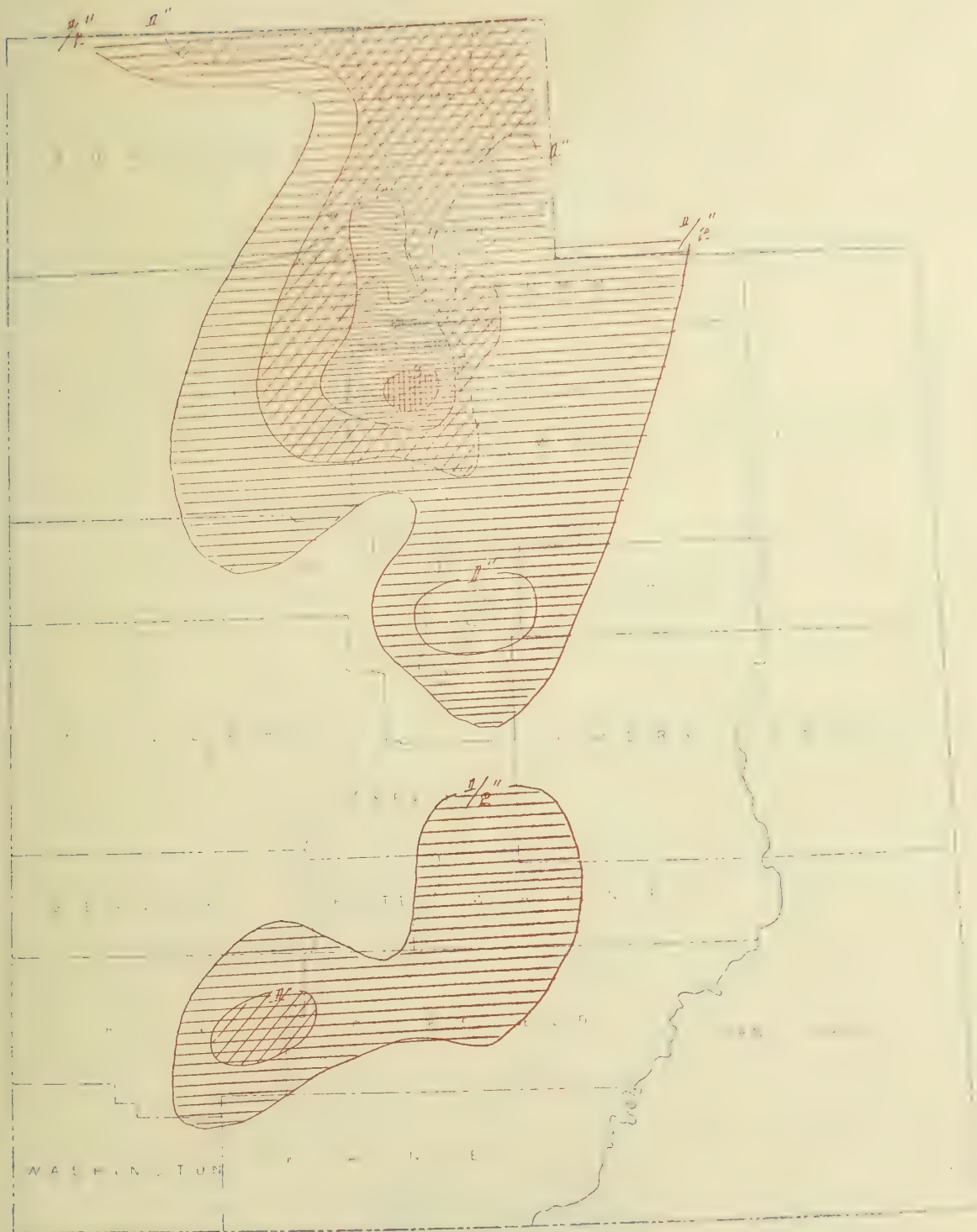
CLIMATE AND CROPS: UTAH SECTION.

APRIL, 1904.

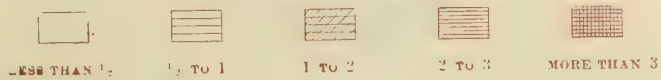
CLIMATOLOGICAL DATA FOR UTAH, APRIL, 1904.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alpine	Utah	4,900	8							3.02	+1.33	2.13		3	22	0	8	w.	T. B. Whitby.	
Blue Creek	Box Elder	4,387	26							0.30	-0.54	0.20		2	16	3	11		Agent So. Pacific Co.	
Corinne	Box Elder	4,240	34	51.0	+0.6	86	16	26	7	51	0.59	-0.51	0.50	2.0	5	17	8	5	sw.	W. E. Johnson.
Evanston, Wyo.	Uinta	6,959	8	39.8	+1.8	70	12	18	7	45	1.13	-0.20	0.45	3.0	2	12	8	10	w.	Frank Tucker.
Farmington	Davis	4,267	4	48.6		76	14	26	7	37	2.82	+0.34	0.95	9.0	6	12	8	10	ne.	Charles Boylin.
Ft. Duchesne - T2	Uintah	5,000	16	52.0	+4.1	84	27	22	*7	48	0.25	-0.36	0.18	0.5	3	20	2	8	w.	Ferdinand Rohricht.
Heber	Wasatch	5,606	11	45.1	+1.3	78	*13	18	7	50	0.06	-0.31	0.75	7.0	4	13	13	4	s.	John Crook.
Henefer	Summit	5,301	5	44.6	+1.8	77	13	19	8	48	0.95	-0.53	0.54		5	12	10	8	nw.	William Brewer.
Huntsville	Weber	5,100	9								1.74	-0.03	0.93	2.0	3	13	14	3	nw.	Lars Petersen.
Kelton	Box Elder	4,230	26								1.61	-0.21	1.14		4					Agent So. Pacific Co.
Logan - T5	Cache	4,507	13	49.0	+2.4	90	13	27	1	32	1.30		1.00	5.0	3	16	4	10	w.	James Dryden.
Meadowville	Rich	6,200	5	40.7		69	26	19	1	35	1.88	-0.07	0.94							J. S. Moffat.
Millville	Cache	4,848	9								0.91		0.60		5	19	7	4	w.	Fred Yeates.
Morgan	Morgan	4,191	11	45.0		77	12	18	*3	44	0.91		0.60							T. R. G. Welch.
Oakley, Idaho	Cassia	4,310	3	51.6		79	13	27	7	32	2.34		1.17		7	18	9	3	nw.	Thomas Adams.
Ogden No. 1	Weber	4,310	34								1.69	-0.66	0.70	16.9	6					Enoch Farr.
Ogden No. 2 † ‡	Weber	4,310	34	45.2	+6.7	80	13	14	7	43	0.98	-0.53	0.40	4.1	7	10	14	6	e.	W. H. Chevers.
Park City	Summit	6,846	7	45.2		80	13	14	7	43	0.98	-0.53	0.40	4.1	7	10	14	6	e.	J. H. Hance.
Pocatello, Idaho	Bannock	4,488	4	48.4	+1.6	80	13	26	1	36										Weather Bureau.
Promontory † ‡	Box Elder	4,913	34								1.92		1.15		6					Agent So. Pacific Co.
Saltair Beach	Salt Lake			49.6		75	26	30	7	30	1.92		1.15		6					Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	30	50.4	+0.9	78	14	30	7	29	2.20	-0.01	1.14	6.0	7	12	7	11	nw.	Section Center.
Snowville	Box Elder	4,360	14	46.2	0	79	*13	19	7	50	1.38	-0.19	0.38		7	15	10	5	s.	Joseph Robbins.
Terrace	Box Elder	4,360	14	46.2	0	79	*13	19	7	50	1.38	-0.19	0.38		7	15	10	5	nw.	Agent So. Pacific Co.
Tooele	Box Elder	4,550	34	51.2	+0.8	82	13	24	8	47	0.20	-0.21	0.10	1.0	2	14	10	6	n. & s.	I. J. Elkington.
Weston, Idaho	Tooele	4,900	8	49.1	+0.6	79	14	25		34	2.05	+0.33	0.97		5	19	8	3		William Chatterton.
Woodruff	Oneida	4,460	6								0.58	-0.10	0.48	T.	2	22	2	6		Thomas Ashton.
Averages	Rich	6,500	7	43.4	+5.2	75	14	20	6	43										
				47.7	+1.7						1.43	-0.24			4	16	7	7	nw.	
MIDDLE.																				
Black Rock	Millard	5,802	4	47.8		83	13	20		46	0.26		0.15	2.0	4	14	11	5	n.	Willard Burbank.
Callao	Juab		2	47.7		84	13	20	*7	48	0.28		0.15	2.0	2	11	11	8	s.	E. E. Edwards.
Castle Dale	Emery	5,500	5	44.8	-0.5	79	15	14	7	48	0.15	-0.31	0.05		3	21	9	0	w.	James Jeffs.
Cisco	Grand	4,385	12	51.9	+1.9	85	14	25	7	48	0.18	-0.08	0.08		3	18	11	1	w.	H. T. Matthews.
Deseret	Millard	4,541	10	48.1	+0.5	81	13	19	*7	53	0.13	-0.89	0.09	3.0	2	17	7	6	n.	S. W. Western.
Emery	Emery	6,260	4	42.4		66	18	15	23	35	T.		T.		0	4	19	7	n.	H. C. Wickman.
Fillmore	Emery	5,100	14	50.8	+1.6	86	13	23	7	45	0.26	-1.68	0.23		3					J. J. Starley.
Garrison - T4	Millard		1	43.4		82	13	18	7	44	0.06		0.06	0.6	1	17	8	1	s.	E. M. Smith.
Gov'm't Creek	Millard	5,277	4	47.0		79	13	21	7	39	0.79		0.25	1.5	4	17	7	6	s.	Walter James.
Grand Junction, Col.	Tooele	4,608	13	54.8	+1.6	81	14	29	7	36	0.26	-0.40	0.15	T.	4	14	14	2	nw.	Weather Bureau.
Green River	Mesa	4,680	7																	J. T. Farrer, Jr.
Ibapah	Emery	4,080	7																	Owen Sheridan.
Levan	Tooele		1																	William Brown.
Levan	Juab	5,010	14	46.4	+0.1	77	13	23	*7	37	1.00	-0.82	0.34	6.9	6	16	7	7	sw.	W. M. Harmon.
Manti - T1	San Pete	5,575	10	45.8	-2.2	78	*14	23	8	42	0.93	+0.24	0.40		4		17	6		D. C. Walkey.
Mt. Nebo	Utah	4,650	3	49.1		80	14	24	7	41	0.33		0.20		4	22	5	3	n. & s.	Web Greene.
Mt. Pleasant	Utah	4,650	3	49.1		80	14	24	7	41	0.33		0.20		4	22	5	3	n. & s.	Web Greene.
Provo	San Pete	5,859	12	47.1	-0.1	78	13	15	20	36	1.12	+0.29	0.50		5	11	15	4	n.	Caleb Tanner.
Richfield	Utah	4,532	12	50.0	+0.9	89	13	24	7	52	1.56	+0.52	0.81	8.0	4	14	13	3	nw.	J. M. Lauritzen.
Scipio	Sevier	5,323	14	47.7	+1.3	84	13	23	*6	46	0.07	-0.57	0.05		2	17	10	3		Thomas Memmott.
Soldier Summit	Millard	5,260	9	48.1	+1.9	81	*12	18	*6	50	0.27	-0.90	0.10	1.0	5	12	8	10	sw.	Agent Rio Grande R. R.
Thistle	Utah	7,474	12	39.6	-1.4	86	12	11	7	61	0.60	-0.01	0.25	6.0	5		24	5	sw.	J. H. Mitchell.
Wellingtons	Utah	5,075	12	50.0	+2.8	87	14	23	*4	51	0.90	-0.21	0.50		4	22	0	8	n.	E. E. Branch.
Averages	Carbon	5,540	5																	
				47.3	+0.5						0.49	-0.32			3	14	11	5	n.	
SOUTHERN.																				
Aneth	San Juan	4,800	4	55.0		85	13	25	1	51	0.03		0.03		1	20	8	2	w.	H. R. Antes.
Coyote	Garfield		3	42.0		72	17	14	24	47	0.50		0.50	5.0	1	13	5	12	n.	H. J. McCullough.
Escalante	Garfield	5,700	4	48.4		82	14	21	*1	43	0.54		0.46		2	10	14	5	w.	W. G. Bleak.
Experiment Farm	Washington		4	58.1		91	*11	27	*1	50						9	15	2		Joseph T. Atkin.
Frisco	Beaver	7,318	10	48.2	+1.9	78	12	21	2	37	0.10	-0.71	0.06		2	14	10	6	n.	S. N. Slaughter.
Giles	Wayne	4,000	9	49.2	-2.4	79	12	25	10	45	0.23	-0.26	0.10		3	26	2	2		J. C. White.
Grover (near)	Wayne	5,800	8																	Henry Cullum.
Hite	Garfield	3,000	5	60.4	+1.8	91	*12	33	1	48	T.		T.		0	21	9	0		F. W. Gibbons.
Kanab	Kane	4,925	4	46.6		83	12	14	21	59	0.10		0.10		1	26	0	4		E. M. Ford.
La Sal	San Juan	7,000	4																	Mrs. G. W. Carpenter.
Loa	Wayne	7,000	12	43.2	+3.1	76	13	10	24	50	1.00	+0.53	0.70	10.0	2	23	0	7		Michael Hansen.
Lund - T4	Iron	5,092	4	48.6		87	12	24	*21	52	0.12		0.10	2.0	3	16	7	3	ne.	B. R. Transeau.
Marysville (near)	Piute	6,180	5	46.0		79	*12	20	25	49	0.37		0.30	3.8	4	7	9	14	sw.	G. T. Henry.
Minersville	Beaver	5,070	7																	R. W. Dotson.
Moab	Grand	4,300	15	57.2	+2.0	90	*13	28	7	51	0.08	-0.37	0.07		2	10	15	5		Henry Crouse.
Modena	Iron	5,479	4	46.0		77	12	23	8	44	0.02		0.02		1	17	12	1	sw.	Weather Bureau.
Monticello	San Juan	7,280	2	56.1		80	24	30	1	34	0.12		0.06		3	19	7	4	s.	John Bailey.
Parowan	Iron	5,970	13	47.3	+0.3	78	12	21	21	43	1.27	+0.								

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



[illegible]

+ Precipitation is complete.

551.01
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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

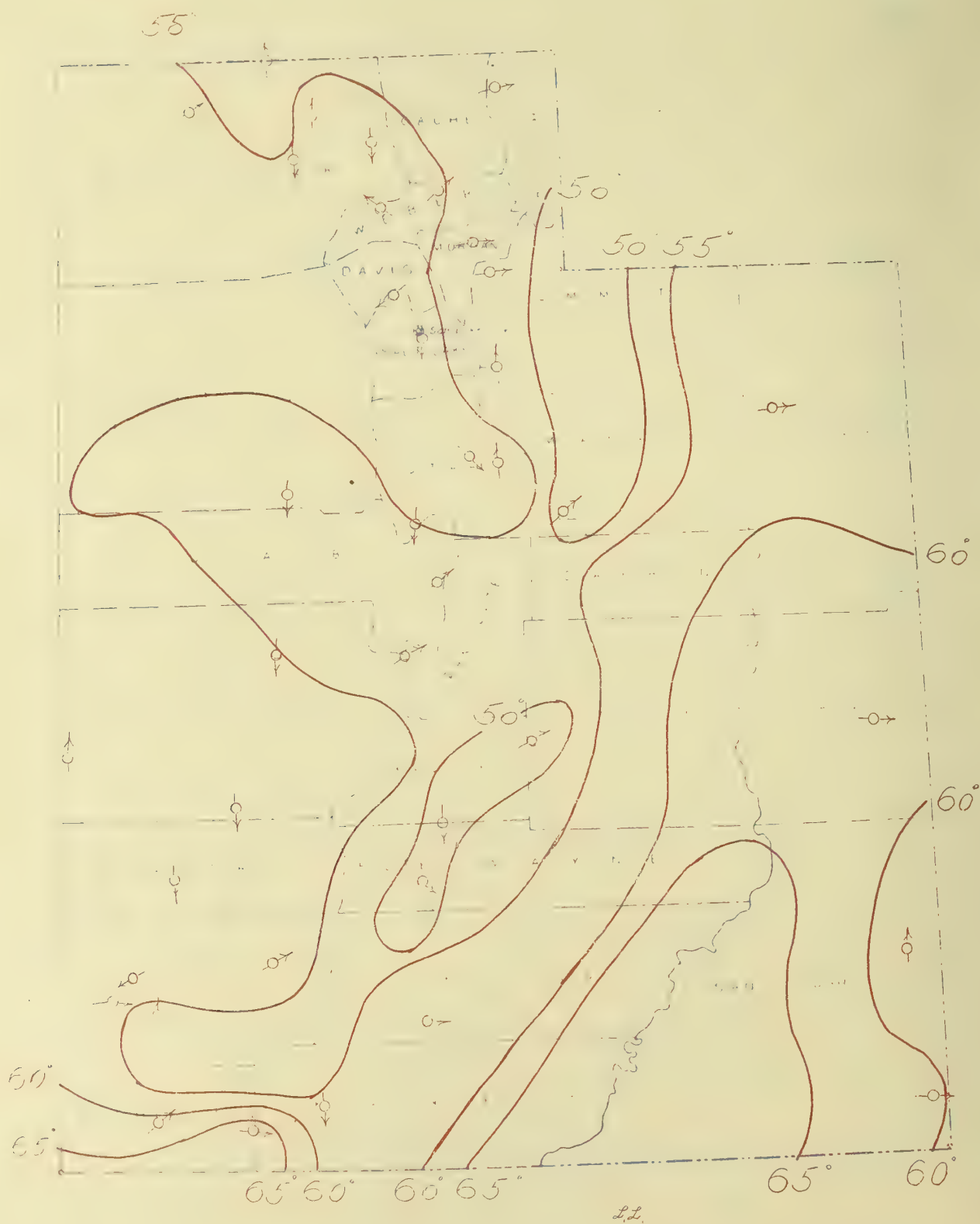
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JUNE 23, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

May, 1904.

No. 7.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 56.2°, or 0.8° below the normal. The highest local monthly mean was 69.6° at Rockville, and the lowest was 46.2° at Soldier Summit. The highest temperature recorded was 100° at Rockville on the 17th, and the lowest was 15° at Emery on the 1st, giving an absolute range for the section of 85°. The greatest daily range for any station was 7° at Woodruff on the 13th. The highest temperatures of the month were generally recorded on the 17th and 23rd; and the lowest on the 2nd and 8th.

PRECIPITATION.

The average precipitation, determined from the reports of 62 stations, was 1.71 inches, or 0.75 inch above the normal. An excess occurred over the entire section, particularly over the middle portion. The greatest monthly amount was 3.84 inches at Tooele City; the least monthly amount was 0.07 inch at Terrace. The greatest rainfall in any 24 consecutive hours was 1.94 inches at Tooele City on the 3rd. Considerable snow fell during the early part of the month, at elevated stations, in scattered localities, being more general over the mountains of the southern portion. Nine stations reported snow, from a trace to 6.5 inches. There was an average of 6 rainy days for the section; 6 over the northern portion; 6 over the middle, and 5 over the southern portion.

WIND AND WEATHER.

The prevailing direction of the wind was from the north. The total number of miles recorded at Salt Lake City was 5,083; at Modena, 8,257; at Grand Junction, Colo., 4,328; and at Pocatello, Idaho, 7,498. The maximum velocity at Salt Lake City was 34 miles per hour from the northwest on the 25th; at Modena, 53 miles from the southwest on the 18th; at Grand Junction, Colo., 29 miles from the south on the 19th; and at Pocatello, Idaho, 34 miles from the northeast on the 20th.

The average number of clear days for the section during the month was 15; partly cloudy days, 9; cloudy days, 7. Determined from the records of automatic sunshine recorders, Salt Lake City had 58 per cent; Modena 71 per cent; Grand Junction, Colo., 75 per cent; and Pocatello, Idaho, 69 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 49.2 per cent, the lowest observed reading being 15 per cent

on the 11th; at Modena, 44.4 per cent, the lowest observed reading being 8 per cent on the 10th; at Grand Junction, Colo., 45.6 per cent, the lowest observed reading being 13 per cent on the 18th; and at Pocatello, Idaho, 53.0 per cent, the lowest observed reading being 18 per cent on the 15th.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Rainbow.—Henefer, 6.

Corona, lunar.—Lund, 29; Marysville, 22.

Halo, solar.—Henefer, 11, 14; Marysville, 10; Pinto, 29.

Sleet.—Blacksmiths Fork, 24; Frisco, 1, 2; Payson, 24, 26.

Frost, light.—Castle Rock, 15, 16; Lund, 4; Panguitch, 27; Payson, 7; Salt Lake City, 8; Scipio, 7, 8.

Frost, killing.—Black Rock, 8, 9; Callao, 8; Castle Dale, 9; Deseret, 8, 9; Farmington, 8, 9; Heber, 8, 9; Henefer, 8; Huntsville, 8, 9; Morgan, 8, 16; Pinto, 8.

Hail.—Fort Duchesne, 25; Frisco, 19; Giles, 14; Henefer, 7, 20, 21; Huntsville, 20; Indianola, 24; Marysville, 20, 23, 27; Meadowville, 7; Modena, 19; Morgan, 20, 25; Parowan, 26; Payson, 24, 26; Pinto, 26; Plateau, 27; Scipio, 14; Terrace, 14; Tropic, 17.

High winds.—Aneth, 1, 7, 14, 18, 19, 26, 30; Castle Rock, 18; Cisco, 19; Deseret, 3, 7, 17–19, 30; Experiment Farm, St. George, 1, 18; Farmington, 26; Fort Duchesne, 23; Frisco, 24; Garrison, 7, 18; Heber, 18, 19; Henefer, 1, 7, 10, 18, 19; Huntsville, 18; Kelton, 7, 25; Levan, 18; Lund, 1, 17, 24, 25; Manti, 26; Meadowville, 10, 18; Moab, 19; Monticello, 1; Mount Nebo, 18, 19, 24; Ogden, 18, 20; Panguitch, 26; Parowan, 18; Pinto, 25; Ranch, 18; Scipio, 17, 18; St. George, 18; Terrace, 18; Tropic, 25.

Thunderstorms.—Aneth, 2, 4, 24; Black Rock, 19, 20, 24, 26, 27; Blacksmiths Fork, 27, 30; Castle Rock, 14, 20; Deseret, 13, 14, 24, 25; Farmington, 20, 22; Fort Duchesne, 24–26; Frisco, 19, 24, 26; Garrison, 13, 14, 19, 20, 24, 26; Giles, 1, 14, 24; Government Creek, 13, 19, 20, 24, 26; Heber, 24, 26; Henefer, 3, 14, 19–21, 26, 27; Huntsville, 20, 24, 25; Indianola, 24; Levan, 2, 14, 24–27; Lund, 13, 26; Marysville, 23, 27; Meadowville, 3, 4, 14, 26, 30; Moab, 2; Modena, 13, 14, 19, 26, 30; Monticello, 14; Morgan, 15, 19, 20; Mount Nebo, 2, 14, 26; Ogden, 3, 24; Parowan, 14; Payson, 14, 24; Pinto, 18, 19, 21; Plateau, 23, 24, 27; Salt Lake City, 19, 20, 24, 26; Scipio, 14; Snowville, 14, 19; Tropic, 1, 13, 14, 20, 22; Woodruff, 2, 3.

OBSERVERS' REMARKS.

Alpine.—Frost damaged early fruit; potatoes about all planted; stock on the range doing well.—Thos. B. Whitby.

Black Rock.—Favorable month for plant growth; nights were rather cool, but no damage from frost except on the 8th and 9th.—Willard Burbank.

Deseret.—Such a remarkably wet May has been heretofore unknown in this section; crops have made good growth; irrigation water holding out well.—Samuel W. Western.

Fort Duchesne.—Some damage to young potato vines resulted from the frost on the night of the 6–7th in the Ashley valley, but diligent inquiry failed to reveal any cases of injury from frost in this vicinity or on the Indian reservation.—Ferdinand Rohricht.

Frisco.—The rains have put the range in fine condition; stock is doing well.—S. N. Slaughter.

Garrison.—This has been a favorable month for crops, with no killing frosts.—E. M. Smith.

Government Creek.—A remarkably cool May, with frequent beneficial storms; agricultural products in better condition than for many years past.—Walter James.

Green River.—Farming operations are progressing well; the first crop of lucerne being cut; the Green river is now about 9 feet above low water.—John T. Farrer, Jr.

Heber.—Light to heavy frost formed every morning but the 7th; ice one-eighth inch thick formed on the 8th; quite a cool month; rainfall above the average.—John Crook.

Henefer.—A fine growing month; rain above average; all crops doing well.—William Brewer.

Huntsville.—A fine month for growth; the frost of the 8-9th did not injure the fruit, as the trees had not blossomed; crops look fine; water during the month has been very high.—Lars Petersen.

Marysvale.—A pleasant month; crops making good growth; supply of irrigation water holding out well.—Geo. T. Henry.

Meadowville.—This has been a very favorable month; lucerne a foot high; grain, grass and garden stuff doing well.—J. S. Moffat.

Morgan.—Strawberry blooms badly frozen on the 8th; on 20th a severe hailstorm cut fruit blooms and foliage.—T. R. G. Welch.

Mount Nebo.—May has been a pleasant month; crops of all kinds made good growth; the heavy rains of the first week were of much benefit.—D. C. Walkey.

Pinto.—Grain looks well; potato planting about completed.—J. H. Harrison.

Ranch.—A very favorable month for the growth of crops; grain and meadows look well, with the stand of grain very good.—J. W. Seaman.

Tropic.—Prospects for harvests above normal; crops doing well.—Edward P. Bolton.

FIELD WORK AND CROPS.

Much field work was done during the month under favorable weather conditions, except during the first week, when the steady cold rains caused a temporary cessation. Following this period the temperature rose, and, under the influence of bright sunshine, every kind of vegetation made rapid advancement. Occasional frosts were reported from scattered localities, immediately after the heavy rains, but little injury resulted therefrom. Grain and lucerne were looking well. Gardens were doing well, and many vegetables were being marketed. Beets were thrifty and thinning was in progress. Fruit was generally well advanced and beyond danger from frost. In a few protected orchards in the southern counties, cherries were ripening. The range was being extensively pastured and continued to furnish plenty of feed. Sheep shearing was mainly completed during the month under favorable conditions, and the wool clip was generally good.

GREAT SALT LAKE.

The stage of the water in the Great Salt Lake was 0.8 of a foot above the zero of the gage on May 1st; 1.4 feet above zero on May 15th, and 1.4 was also the stage on June 1st. These readings are from the new gage, and will hereafter be given in feet and tenths of feet. The water in the Lake extends under the pavilion at Saltair Beach.

EARTHQUAKE.

A light shock of earthquake was reported at Cannonville, Garfield County, June 3rd, at 12:40 p. m. local time; also slight tremors at Tropic, Garfield County, on the same day at 1:15 p. m.; wave from southwest to northeast.

CORRECTIONS FOR APRIL REPORT.

Garrison.—Mean minimum temperature should be 31.7° on page 6; mean temperature on page 5 should be 48.6°. Logan.—Number of days missing should be 3. Lund.—Number of days missing should be 4. Pocatello, Idaho.—Page 6, mean minimum temperature should be 36.6°; the minimum temperature on the 15th should be 43°.

LATE APRIL REPORTS.

Grover: Mean temperature, 45.7°; highest, 75° on 11th and 14th; lowest, 20 on the 1st; greatest daily range, 41°. Total precipitation, 1.65 inches; greatest in 24 hours, 1.20 inches; number of rainy days, 3; clear, 17; partly cloudy, 4; cloudy, 9; direction of wind, west.

Tabapah: Mean temperature, 43.8°; highest, 80° on 13th and 14th; lowest, 14° on 7th; greatest daily range, 54°. Total precipitation, 1.05 inches; greatest in 24 hours, 0.40 inch on 21st; total snowfall, 8.5 inches; number of rainy days, 4; clear, 14; partly cloudy, 9; cloudy, 8.

Ogden, II: Mean temperature, 47.6°; highest, 78° on 13th; lowest, 31° on 18th. Total precipitation, 1.05 inches; greatest in 24 hours, 0.75 inch; total snowfall, 2.0 inches; number of rainy days, 2; clear, 18; partly cloudy, 1; cloudy, 11; direction of wind, east.

Promontory: Mean temperature, 45.9°; highest, 78 on 13th; lowest, 30° on 1st and other dates. Precipitation, none; number of clear days, 19; partly cloudy, none; cloudy, 11; direction of wind, west.

Comparative Temperature and Precipitation Data for May During the Past Thirteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	54.8	98	20	1.55
1893	54.8	96	12	0.77
1894	58.2	98	10	0.44
1895	57.0	99	19	1.16
1896	51.0	104	12	1.52
1897	60.2	104	12	0.42
1898	53.2	94	20	3.02
1899	52.8	96	15	0.79
1900	59.5	101	21	0.36
1901	59.3	98	15	1.29
1902	56.2	99	13	0.64
1903	53.3	100	15	1.60
1904	56.2	100	15	1.71

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, LOGAN, CACHE COUNTY, UTAH.

From 1891 to 1903.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891	22.3	24.8	31.8	49.6	58.8	62.2	71.1	71.1	63.6	52.4	40.9	24.6	50.0
1892	22.3	24.8	31.8	49.6	58.8	62.2	71.1	71.1	63.6	52.4	40.9	24.6	50.0
1893	24.4	19.6	26.5	42.8	52.2	61.6	70.3	70.4	50.5	37.0	24.6	14.5	50.0
1894	24.3	16.6	32.8	46.8	58.6	63.7	72.0	69.0	59.8	49.6	35.8	33.6	50.0
1895	19.6	22.3	31.1	48.4	51.3	60.2	68.8	72.0	58.4	52.1	31.3	21.1	45.0
1896	27.9	33.2	35.0	44.0	47.9	66.0	71.2	70.3	60.7	53.0	34.1	29.1	47.0
1897	21.2	26.5	26.0	44.0	60.8	63.2	68.4	73.0	63.8	47.9	39.8	24.5	46.0
1898	14.0	29.5	31.2	51.5	51.8	63.8	72.3	74.9	62.5	45.5	33.1	16.5	45.0
1899	29.0	24.6	35.0	47.2	51.1	62.6	72.4	66.4	65.0	46.5	42.2	23.1	47.0
1900	30.2	22.5	45.0	47.0	57.4	70.4	70.9	69.4	59.9	49.8	39.6	31.0	49.0
1901	28.3	28.3	37.1	45.5	60.6	61.4	76.7	72.8	59.2	53.6	42.0	28.6	49.0
1902	21.9	34.4	31.0	46.8	55.5	65.4	68.4	70.5	60.4	51.4	36.3	29.2	48.0
1903	27.2	13.3	36.2	45.8	52.5	67.1	68.6	72.5	58.2	50.4	35.3	24.0	45.0
Mean	24.4	24.6	34.0	46.6	55.0	63.6	70.8	70.7	60.8	50.2	37.7	25.6	47.0

TOTAL PRECIPITATION.

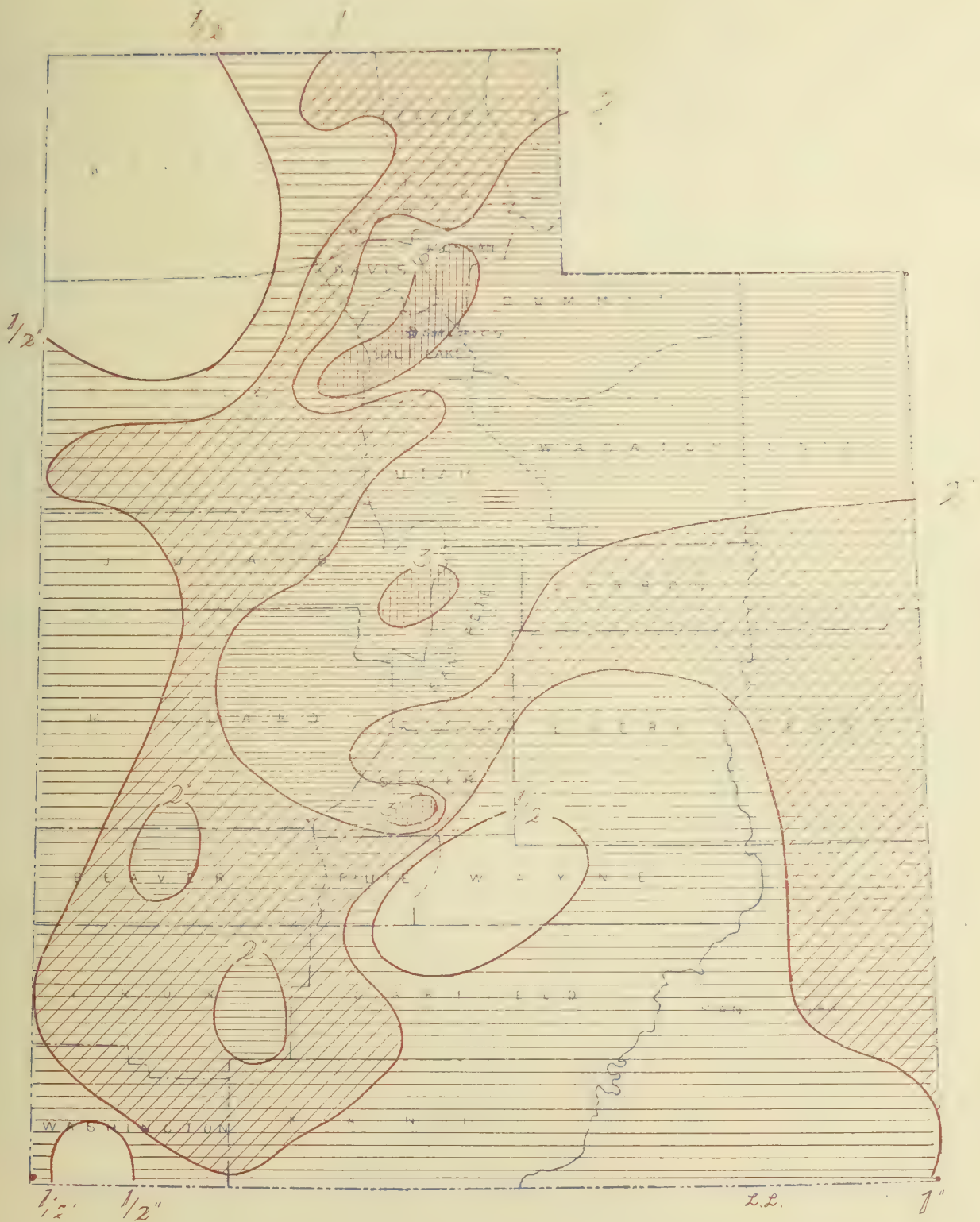
Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891	0.65	2.45	2.64	0.99	3.00	1.36	0.34	0.11	1.67	0.59	0.92	1.44	14.5
1892	1.86	1.45	1.72	1.41	0.83	0.74	0.28	0.58	2.60	0.67	1.70	2.13	14.2
1893	2.13	0.45	1.71	1.05	2.27	0.51	0.11	0.18	1.96	0.04	1.70	0.95	13.0
1894	1.31	0.35	1.73	2.11	3.17	0.46	1.46	1.49	0.91	0.68	1.97	0.57	16.1
1895	0.91	2.33	2.81	1.71	0.56	0.56	0.71	0.25	1.28	2.62	2.44	1.22	17.4
1896	0.88	0.52	1.31	1.58	5.02	0.85	0.15	0.11	0.18	1.34	0.73	0.48	13.1
1897	1.20	0.73	1.79	0.86	1.37	0.60	0.60	0.70	0.02	2.58	1.32	0.86	12.5
1898	0.56	0.78	0.58	4.47	1.42	0.19	0.51	0.71	0.94	2.36	2.69	0.23	15.6
1899	1.13	1.55	1.40	1.35	2.43	0.41	0.67	1.60	1.03	1.83	0.35	1.32	14.4
1900	0.28	0.95	2.53	2.52	2.19	0.71	0.52	0.27	T.	0.51	1.80	1.02	13.3
1901	26.2	0.33	0.52	2.01	2.89	0.25	0.35	0.12	0.90	1.01	2.29	0.68	13.9
Mean	1.23	1.08	1.71	1.82	2.26	0.61	0.40	0.48	1.08	1.13	1.33	1.05	14.2

CLIMATOLOGICAL DATA FOR UTAH, MAY, 1904.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alpine	Utah	4,900	8								1.92	-0.46	1.06	0.0	3					T. B. Whithy.
Blue Creek	Box Elder	4,387	26	62.2	+0.1	81	21	40	2	35	1.07	+0.24	0.40	0.0	5	13	7	11	8.	Agent So. Pacific Co.
Corinne	Box Elder	4,240	34	57.6	-3.6	86	18	30	7	46	0.91	-0.27	0.43	0.0	5	17	2	12	n.	W. E. Johnson.
Evanston, Wyo	Uinta	9,959	8	46.6	0	72	18	22	8	41	2.88	+1.16	0.86	1.5	7	16	10	5	sw.	Frank Tucker.
Farmington	Davis	4,267	4	55.2	-2.3	85	*19	29	9	48	3.05	+0.27	0.70	0.0	7	11	14	6	ne.	Charles Boylin.
Ft. Duchesne - T2	Uintah	5,000	16	58.2	+1.1	90	23	25	8	50	2.78	+2.17	1.84	0.0	8	16	6	9	w.	Ferdinand Rohricht.
Heber	Wasatch	5,606	11	52.8	0	81	24	23	8	48	2.01	+0.42	0.68	0.0	8	15	5	11	8.	John Crook.
Henefer	Summit	5,301	5	52.2	+0.3	80	17	22	8	49	2.57	+1.01	0.65	0.0	9	14	11	6	w.	William Brewer.
Huntsville	Weber	5,100	9								1.88	-0.12	0.44	0.0	5	10	16	5	sw.	Lars Petersen.
Kelton	Box Elder	4,230	26	55.2	-5.3	82	*22	26	7	39	0.25	-0.32	0.25	0.0	1	16	11	4	sw.	Agent So. Pacific Co.
Logan	Cache	4,507	13								1.65	-0.24	0.46	0.0	10					James Dryden.
Menlowville	Rich	6,200	5	50.3	+2.0	75	18	26	8	37	1.55	-0.30	0.75	T.	4	15	5	11	w.	J. S. Moffat.
Millville	Cache	4,848	9								1.65	-0.24	0.46	0.0	10					Fred Yeates.
Morgan	Morgan	4,191	11	52.7		80	17	25	9	46	3.66		1.12	0.0	10	17	11	3	w.	T. R. G. Welch.
Oakley, Idaho	Cassia	4,191	11								1.96	-1.01	0.86	0.0	6	14	11	6	se.	Thomas Adams.
Ogden No. 1	Weber	4,310	3	58.7	+1.6	82	17	31	8	33	2.14	+0.53	0.51	0.0	8					Enoch Farr.
Ogden No. 2 †	Weber	4,310	3	59.2	-2.6	80	*22	36	5	33	2.14	+0.53	0.51	0.0	8					W. H. Chevers.
Park City	Summit	6,846	7	52.5	+3.7	81	*17	24	*7	53	2.44	+0.83	0.58	6.5	7					J. H. Hance.
Pocatello, Idaho	Bannock	4,488	4	55.7	+1.4	78	22	30	8	43	0.40	-0.77	0.26	0.0	9	8	19	4	w.	Weather Bureau.
Promontory †	Box Elder	4,913	34	55.0	-2.9	82	23	35	*4	2	2.17		0.60	0.0	7	25	0	6	n.	Agent So. Pacific Co.
Saltair Beach	Salt Lake			59.1		82	17	43	2	33	3.08	+1.36	1.06	0.0	8	5	18	8	n.	Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	30	57.5	-0.3	83	17	36	8	34	0.65	-0.58	0.38	0.0	5	13	13	5	s.	Section Center.
Snowville	Box Elder	4,360	14	52.2	-3.5	80	29	23	9	49	0.07	-0.58	0.07	0.7	1	4	21	6		Joseph Robbins.
Terrace	Box Elder	4,550	34	56.9	-3.8	86	22	29	8	46	0.07	-0.58	0.07	0.7	1	4	21	6		Agent So. Pacific Co.
Tooele	Tooele	4,900	8	58.2	+2.1	83	17	38	26	29	3.84	+1.57	1.94	0.0	8	17	7	7		I. J. Elkington.
Weston, Idaho	Oneida	4,460	6								2.53	+1.87	0.85	0.0	6	7	14	10		William Chatterton.
Woolruff	Rich	6,560	7	50.5	+3.2	85	13	20	10	57	2.53	+1.87	0.85	0.0	6	7	14	10		Thomas Ashton.
Averages				55.6	-2.1						2.01	+0.34			6	13	10	8	w.	
MIDDLE.																				
Black Rock	Millard	5,802	4	56.0	-0.4	85	17	29	*8	47	1.64	+0.73	0.53	0.0	5	16	7	8	n.	Willard Burbank.
Callao	Juab		2	56.8		89	17	27	9	55	0.77		0.40	0.0	3	8	10	13		E. E. Edwards.
Castle Dale	Emery	5,500	5	52.2	-2.3	81	23	23	*8	51	1.00	+0.82	0.30	0.0	7	21	10	0		James Jeffs.
Cisco	Grand	4,385	12	64.6	+2.1	94	18	32	8	49	1.33	+0.83	1.05	0.0	3	15	13	3	w.	H. T. Matthews.
Deseret	Millard	4,541	10	54.6	+2.9	87	17	26	9	53	2.13	+1.16	1.00	0.0	6	14	3	14	n.	S. W. Western.
Emery	Emery	6,266	4	49.4	-1.9	69	22	15	1	36	0.74	+0.52	0.54	0.0	2	5	16	10	sw.	C. H. Wickman.
Fillmore	Millard	5,100	14	58.4	+0.6	89	23	32	8	45	2.81	+1.57	1.60	0.0	7					J. J. Starley.
Garrison	Millard		1	56.6		87	17	25	8	50	0.97		0.47	0.0	4	19	7	5	s.	E. M. Smith.
Gov'm't Creek	Tooele	5,277	4	53.2	-2.2	78	*24	26	8	41	1.53	-0.27	0.61	0.0	7	10	5	16	n.	Walter James.
Grand Junction, Col.	Mesa	4,668	13	61.8	+0.2	88	23	36	8	35	1.39	+0.76	0.47	0.0	8	14	13	2	nw.	Weather Bureau.
Green River	Emery	4,086	7	63.8	-1.2	92	*24	34	2	44	0.97	+0.56	0.90	0.0	2	18	4	9		J. T. Farrer, Jr.
Ibapah	Tooele		1	51.6		86	17	20	8	54	1.81		0.78	0.0	6	9	10	12		Owen Sheridan.
Levan	Juab	5,010	14	53.8	-1.8	79	17	31	8	40	3.13	+1.77	1.32	0.0	8	18	5	8	sw.	William Brown.
Manti - T4	San Pete	5,575	10	53.3	-5.9	82	18	30	9	44	2.03	+1.32	1.18	0.0	5					W. M. Harmon.
Mt. Nebo	Utah	4,650	3	57.3	+1.0	83	17	32	8	41	2.11	+1.07	1.12	0.0	9	14	9	8	n.	D. C. Walkey.
Mt. Pleasant	San Pete	5,859	12	54.4	-1.0	82	23	29	7	44	2.11	+0.93	0.66	0.0	7	12	19	0		Web Greene.
Payson	Utah	4,637									2.41		1.00	0.0	6	16	11	4		W. C. Wightman, Jr.
Provo	Utah	4,532	12	57.9	-0.1	86	17	29	8	41	2.11	+0.27	0.81	0.0	10	11	15	5	nw.	Caleb Tanner.
Richfield	Sevier	5,323	14	50.4	-1.2	88	31	28	7	53	1.03	+0.65	0.40	0.0	4	19	8	4		J. M. Lauritzen.
Scipio	Millard	5,260	9	55.1	+1.3	84	*17	24	7	53	2.01	+0.85	1.26	0.0	7	12	10	9	sw.	Thomas Memmott.
Soldier Summit - T2	Utah	7,474	12	46.2	-1.2	76	*17	18	*1	50	2.22	+1.47	0.50	0.0	8	15	11	3	sw.	Agent Rio Grande R. R.
Thistle	Utah	5,075	12	57.2	+2.4	95	17	28	8	55	2.65	+1.70	0.60	0.0	9	19	0	12	s.	J. H. Mitchell.
Wellington	Carbon	5,540	5	56.8	+0.4	86	*17	29	8	48	1.66	+1.34	0.75	0.0	4					E. E. Branch.
Averages				55.5	-0.3						1.78	+1.17			6	14	9	8	n-sw.	
SOUTHERN.																				
Aneth	San Juan	4,800	4	63.3	+1.7	90	18	34	3	45	0.62	+0.41	0.23	0.0	5	19	9	3	w.	H. R. Antes.
Coyote	Garfield		3	48.5	-1.3	85	14	21	8	48	0.17	-0.23	0.08	0.0	4	20	2	9		H. J. McCullough.
Escalante	Garfield	5,700	4																	W. G. Bleak.
Experiment Farm	Washington			63.8		96	17	31	4	56						19	0	12		Joseph T. Atkin.
Frisco - T2	Beaver	7,318	10	55.2	-2.3	85	23	30	2	34	2.49	+1.60	1.02	0.0	9	12	9	8	n.	S. N. Slaughter.
Giles	Wayne	4,000	9	56.0	-6.5	79	12	31	9	39	0.62	+0.27	0.30	0.0	4	21	4	6		J. C. White.
Grover (near)	Wayne	5,800	8																	Henry Cullum.
Hite	Garfield	3,000	5	68.1	-2.5	94	*18	41	3	42	0.84	+0.52	0.49	0.0	2	18	11	2		F. W. Gibbons.
Kanab - T3	Kane	4,925	4	55.6		85	13	16	2	51	0.90		0.50	0.0	3	21	0	7		E. M. Ford.
La Sal	San Juan	7,000	4																	Mrs. G. W. Carpenter.
Loa	Wayne	7,000	12	53.2	+3.3	80	*17	25	*2	49	0.19	-0.16	0.15	0.0	3					Michael Hansen.
Lund	Iron	5,092	4	58.4	+3.0	86	16	32	*2	50	1.33	+0.89	0.45		7	20	7	4	var.	B. R. Transeau.
Marysville (near)	Piute	6,180	5	53.8	+1.6	84	17	27	9	50	1.69	+1.14	0.76	0.5	9	12	6	13	nw.	G. T. Henry.
Minersville	Beaver	5,070	7																	R. W. Dotson.
Moab	Grand	4,300	15	64.2	-1.0	94	23	33	*1	49	1.41	+0.82	0.65	0.0	6	20	3	8		Henry Crouse.
Modena	Iron	5,479	4	56.4	+2.2	82	17	31	9	44	1.55	+0.80	0.81	2.4	10	14	11	6	w.	Weather Bureau.
Monticello	San Juan	7,280	2	52.6	-0.2	80	31	29	3	40	1.67	+0.87	0.52	4.0	4	14	11	6		

Indicates rec. * 101 etc

TOTAL PRECIPITATION FOR THE MONTH.



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

761
DAV

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

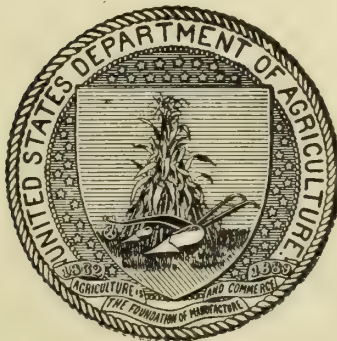
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

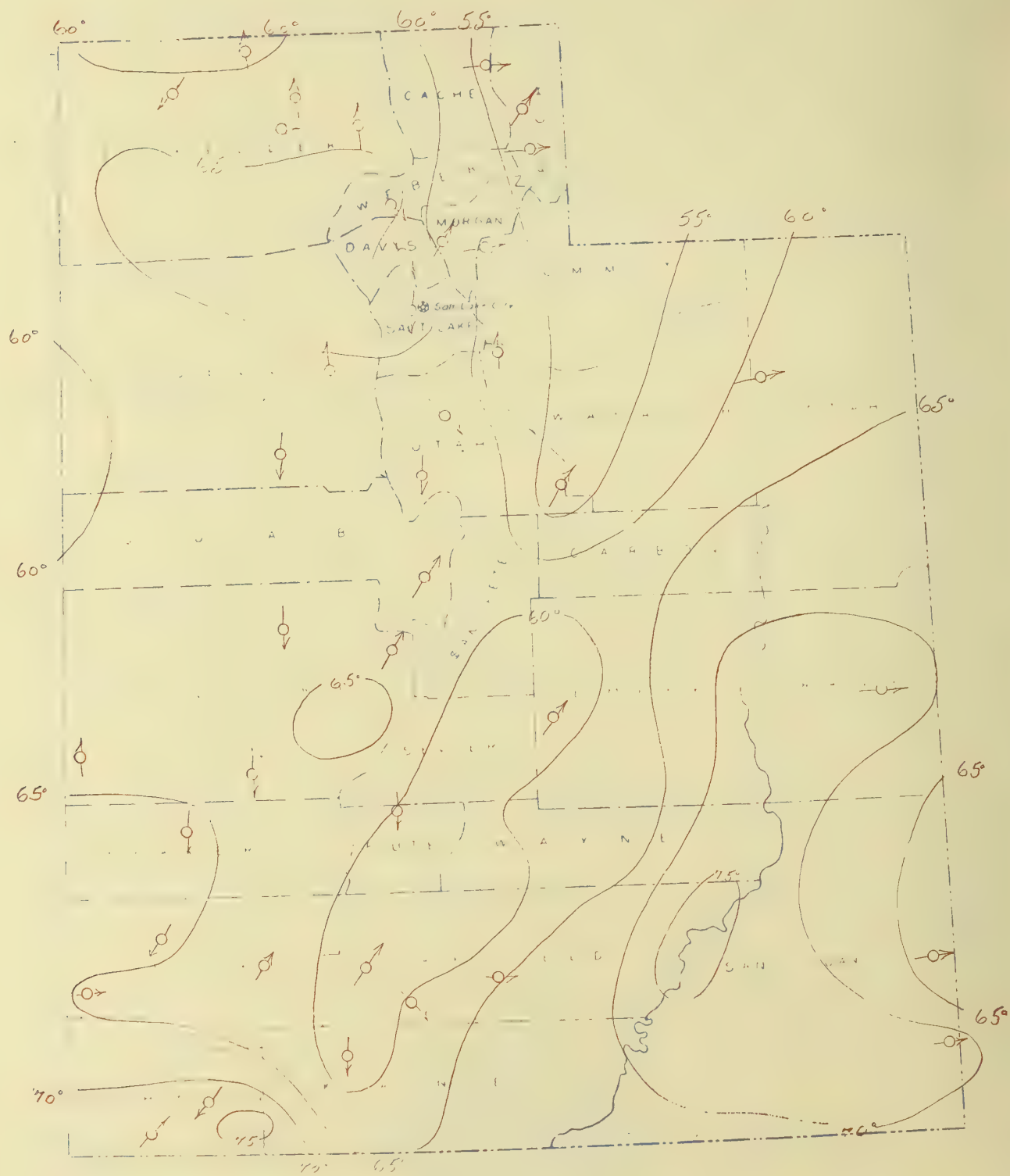
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JULY 23, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

June, 1904.

No. 8.

WEATHER.

Weather conditions during the month presented no abnormal features. Only two distinct storm periods passed over the section, and these were of moderate intensity. Thunderstorms were frequent, especially during the storm periods, but there was a notable absence of high winds. A cold snap occurred about the 24th, when considerable frost formed in the elevated valleys of the State, with temperatures in many instances considerably below the freezing point. On the whole, however, typical summer weather prevailed during the month, with the usual clear skies and abundant sunshine.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 63.3° , or 2.9° below the normal. The highest local monthly mean was 76.8° at Hite; the lowest was 51.4° at Soldier Summit. The highest temperature recorded was 102° at St. George on the 13th and 19th; the lowest was 21° at Soldier Summit on the 25th, giving an absolute range for the section of 81° . The greatest daily range for any station was 59° at Farmington on the 24th. The highest temperatures of the month were generally recorded on the 29th; and the lowest on the 25th.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 0.47 inch, or 0.06 inch above the normal. Over the northern portion the rainfall was about normal; over the middle portion there was a slight excess, while a slight deficiency occurred over the southern. The greatest monthly amount was 2.30 inches at Coyoto; and the least, a trace at Utah Lake Pumping Station, Cisco, Aneth and Kanab. The greatest rainfall in any 24 consecutive hours was 2.00 inches at Coyoto on the 8th.

WIND AND WEATHER.

The prevailing direction of the wind was west. The total number of miles recorded at Salt Lake City was 4,676; at Modena, 8,196; at Grand Junction, Colo., 4,341; and at Pocatello, Idaho, 6,279. The maximum velocity at Salt Lake City was 28 miles per hour from the northwest on the 6th; at Modena, 42 miles from the southwest on the 14th; at Grand Junction, Colo., 26 miles from the southwest on the 1st; and at Pocatello, Idaho, 34 miles from the west on the 6th.

The average number of clear days for the State during the month was 17; partly cloudy days, 8; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 69 per cent; Modena 78 per cent; Grand Junction, Colo., 72 per cent; and Pocatello, Idaho, 84 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 38 per cent, the lowest observed reading being 10 per cent on the 27th; at Modena, 29 per cent, the lowest observed reading being 7 per cent on the 18th; at Grand Junction, Colo., 42 per cent, the lowest observed reading being 16 per cent on the 6th; and at Pocatello, Idaho, 44 per cent, the lowest observed reading being 10 per cent on the 27th.

There was an average of 3 days with .01 inch or more precipitation, that extended to all portions of the section.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halo, lunar.—Tropic, 18.

Halo, solar.—Government Creek, 19.

Coronae, lunar.—Government Creek, 20; Marysville, 18.

Hail.—Alpine, 2, 25; Callao, 22; Deseret, 21; Frisco, 23; Fort Duchesne, 16; Henefer, 23; Moab, 8; Meadowville, 3; Plateau, 3; Tropic, 4.

High winds.—Aneth, 3, 7, 15, 20, 21, 25, 26; Cisco, 7, 15, 30; Deseret, 3, 6, 14–16, 23, 24, 29; Garrison, 6, 28; Government Creek, 17; Lund, 3, 6, 7, 23, 24; Meadowville, 10, 17, 23, 30; Salt Lake City, 3, 6.

Killing frosts.—Alpine, 25; Callao, 26; Castle Rock, 5, 12, 25, 27; Garrison, 25; Huntsville, 25–27; Heber, 25; Indianola, 24; Levan, 25; Monticello, 26; Morgan, 11, 25; Meadowville, 11, 25, 26; Panguitch, 24; Plateau, 26; Payson, 24, 25; Randolph, 25–27; Woodruff, 25.

Thunderstorms.—Alpine, 2; Aneth, 7, 30; Black Rock, 14, 20, 21, 23; Callao, 22, 23; Coyoto, 14; Castle Rock, 3, 17, 23, 30; Deseret, 21; Frisco, 14, 23; Fort Duchesne, 15, 16, 22, 23, 30; Giles, 7, 8, 20, 23, 30; Garrison, 13, 20–23; Government Creek, 14, 15, 22, 23; Huntsville, 2; Henefer, 2, 3, 15, 17, 21–23, 30; Heber, 23, 30; Indianola, 7, 8; Levan, 7, 14, 16, 21–23, 30; La Sal, 24, 30; Moab, 7, 8, 14, 15, 21, 23, 24, 30; Modena, 7, 14, 22, 28; Morgan, 21–23; Marysville, 3, 17, 22, 23; Meadowville, 22; Mount Nebo, 2, 21; Ogden, 2, 24; Utah Lake Pumping Station, 14, 22, 23; Parowan, 7, 14, 15, 23, 28; Panguitch, 17; Pinto, 28; Plateau, 3, 14, 23; Payson, 2, 21, 23; Randolph, 14, 15, 17, 21, 30; Salt Lake City, 2, 3, 21–23; Scipio, 29, 30; Snowville, 21, 22; Tropic, 6, 7, 14, 15, 24, 25, 27; Woodruff, 14, 21–24, 30.

OBSERVERS' REMARKS.

Alpine.—Lucerne is a good average crop; spring grain looks well, but is too thick on the ground for maturing to the best advantage.—Thos. B. Whitby.

Black Rock.—The month was a favorable one; plant growth would be invigorated by rain.—Willard Burbank.

Emery.—The rainfall was above that for any June for 15 years; everything looks thrifty.—H. C. Wickman.

Frisco.—A very dry month; the range is suffering for rain.—S. N. Slaughter.

Green River.—The Green River has been falling rapidly, but there seems to be plenty of irrigation water in sight to mature crops; lucerne will soon be ready to cut the second time; crops generally are progressing finely.—John T. Farrer.

Government Creek.—A cold, backward month; crops made fair growth; range feed is plentiful; stock doing finely.—Walter James.

Huntsville.—Good growing weather prevailed, except on the 25th, when frost nipped potatoes and other tender vegetables, and injured lucerne slightly.—Lars Petersen.

Henefer.—A good growing month till the 25th, when all tender vegetation was badly frozen; water is plentiful.—William Brewer.

Heber.—Very favorable month till 25th, when killing frost was observed for three mornings; all tender plants were ruined; beans, cucumbers and some patches of potatoes were cut to the ground; water is plentiful.—John Crook.

Indianola.—Frost on the night of the 24th injured wheat, alfalfa, potatoes and beans.—R. H. Spencer.

Monticello.—Frost on the 26th did some damage to squash and cucumber vines.—John Bailey.

Morgan.—Frost on the 25th froze potatoes, beans and other tender plants.—T. R. G. Welch.

Marysvale.—The month was dry and hot; irrigation water very low; light first crop of hay is cut.—Geo. T. Henry.

Meadowville.—The past month was dry, with rather cold nights, but all grain and hay are in first class condition; potatoes were severely frozen, and show no signs of life yet; the first crop of lucerne will be cut soon.—J. S. Moffatt.

Mount Nebo.—A splendid month for farm work; the first crop of lucerne is nearly all saved; prospects indicate a good crop of wheat and oats; fruit is in fine condition.—D. C. Walkey.

Pinto.—Dry month; irrigated crops doing well; haying in progress and fair yields being secured; the range is burning up.—J. H. Harrison.

Ranch.—A very dry month; water is low and crops are suffering; arid farm crops look poor.—J. W. Seaman.

Scipio.—Perhaps the most destructive frost that ever occurred in Scipio, occurred on the 24th, killing potatoes and other tender vines, and injuring grain; frost occurred on the two following nights, but was less severe.—Thos. Memmott.

Snowville.—Light frost on the 25th did slight damage in limited areas.—Joseph Robbins.

Tropic.—Light earth trembles were distinctly felt on the 3rd, at 1:15 p. m. Fine growing weather prevailed during the month; all crops are in good condition.—Edw. P. Bolton.

Woodruff.—The frost on the 25th cut the potato vines down to the ground; fall wheat is coming in head and haying will soon be begun.—Thos. Ashton.

CROP CONDITIONS.

Under the influence of the generally favorable weather during the month, crops made rapid advancement, and by the close fall and early-sown spring wheat were heading out. Harvesting was a matter of the near future, and had indeed already begun in the extreme southern part of the section. The stands were generally good, and all indications pointed to large yields. Rye, oats and barley were in good condition. Corn had been in thriving condition until near the close of the month, when the crop suffered considerable deterioration from the harmful effects of the severe cold snap that occurred. The first crop of alfalfa had been secured in good condition, with yields generally above the average. The second crop was in thriving condition and making rapid growth. Fruit suffered somewhat from the short cold spell, but was recovering rapidly, and prospects were promising, especially for apples. Beets and gardens were doing well. New potatoes were being marketed. Ranges were in excellent condition, and stock was in consequence thriving. Notwithstanding the demands made upon the store of irrigation water, the supply was holding out well.

GREAT SALT LAKE.

The stage of the water on June 1 was 1.4 feet; on June 15, 1.5 feet; and on July 1st, 1.4 feet above the zero of the gauge.

Comparative Temperature and Precipitation Data for June During the Past Thirteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	65.0	116	22	0.46
1893	64.0	105	19	0.02
1894	61.5	106	15	0.84
1895	62.8	106	18	0.43
1896	70.0	112	21	0.20
1897	63.2	104	20	0.25
1898	65.2	110	22	0.78
1899	64.0	110	21	0.58
1900	69.7	111	30	0.16
1901	63.3	109	19	0.25
1902	66.9	114	21	0.17
1903	65.7	110	27	0.47
1904	63.3	102	21	0.47

CORRECTIONS TO MAY REPORT.

Page 5: Fort Duchesne—Number of days missing, omitted, should be 3. Kelton—Mean temperature recorded 55.2°, should be 55.0°. Logan—Mean temperature recorded 54.6°, should be 56.2°. Morgan—Lowest temperature recorded as occurring on the 9th, should be 8th. Ogden No. 2—Mean temperature recorded 59.2°, should be 58.8°. Rockville—Lowest temperature recorded as occurring on the 1st, should be 2nd.

Page 6: Kelton—Mean minimum temperature recorded 38.2°, should be 37.9°. Logan—Mean maximum temperature recorded 64.5°, should be 67.8; mean minimum temperature recorded 44.6°, should be 44.7.

LATE MAY REPORT.

Logan: Mean temperature, 54.6°; departure from the normal, —0.6; highest temperature, 77° on the 18th and other dates; lowest temperature, 32° on the 8th; greatest daily range, 36°; total precipitation, 0.85 inch; departure from the normal, —1.36 inches; greatest precipitation in any 24 consecutive hours, 0.32 inch on the 25th; number of rainy days, 7.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, FILLMORE, MILLARD CO., UTAH.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892.....	.....	.....	.....	49.9	58.1	70.2	78.6	76.7	71.8	54.4	43.5	28.3	.....
1893.....	30.3	31.7	41.4	47.4	57.4	69.5	75.9	73.0	63.8	48.4	38.9	34.6	51.2
1894.....	25.4	24.1	41.0	48.6	59.4	62.1	71.1	74.4	62.2	53.0	43.6	28.4	49.5
1895.....	25.1	27.2	36.0	48.6	56.0	61.4	69.4	73.4	63.0	55.5	38.4	25.1	48.3
1896.....	33.9	37.6	43.0	48.0	54.8	73.1	74.8	74.4	64.9	54.2	38.0	31.4	52.6
1897.....	28.3	30.8	36.0	51.1	61.6	66.9	72.8	75.9	65.6	50.0	36.6	19.8	49.6
1898.....	16.0	32.1	34.2	52.4	51.8	66.4	74.5	74.2	64.4	46.7	35.6	25.6	47.8
1899.....	31.0	32.0	40.2	50.0	53.7	65.6	75.4	67.9	67.2	46.8	41.5	26.6	49.8
1900.....	34.3	35.0	47.2	46.2	59.7	72.5	76.2	73.2	61.9	52.3	45.6	32.6	53.1
1901.....	31.2	36.2	10.3	48.0	63.2	66.1	81.2	76.9	65.3	55.8	46.0	31.7	53.8
1902.....	30.8	38.8	38.6	52.8	59.8	71.8	73.8	75.9	65.4	55.8	41.1	33.7	53.2
1903.....	33.5	19.6	41.1	47.9	55.9	71.0	73.6	77.6	64.6	53.6	42.4	31.6	51.0
1904.....	26.6	37.8	42.4	50.8	58.4	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	29.1	31.9	40.1	49.4	57.7	68.1	74.8	74.5	65.0	52.2	40.9	29.4	51.1

TOTAL PRECIPITATION.

1892.....	.....	.....	2.11	2.03	0.82	0.23	0.47	0.66	1.07	0.53	1.20	.....	.....
1893.....	0.81	1.51	2.89	2.00	1.53	0	0.48	1.71	1.21	0.46	1.11	1.79	15.59
1894.....	0.70	0.56	1.04	2.43	0.64	2.04	0.34	1.19	1.94	0.41	0.31	1.77	13.37
1895.....	1.93	2.15	2.06	1.23	1.51	0.80	0.56	0.97	1.66	0.93	1.46	1.10	16.36
1896.....	0.75	0.16	0.94	1.47	1.06	0.01	2.36	1.69	0.85	0.32	1.17	0.33	11.16
1897.....	2.15	2.17	2.89	1.26	0.03	0.26	0.19	0.31	1.50	3.88	1.15	1.55	17.04
1898.....	0.15	1.20	3.07	0.79	4.44	0.92	0.99	0.60	1	0.60	1.27	0.76	14.59
1899.....	0.50	1.40	5.00	1.45	0.35	0.06	0.01	0.28	0	1.94	1.06	1.03	14.48
1900.....	1.25	0.45	0.15	3.15	1.04	0.57	4.1	0.14	1.58	0.93	0.66	0.03	9.72
1901.....	0.35	2.00	1.54	2.35	1.04	0.57	4.1	0.14	1.58	0.93	0.66	0.03	9.72
1902.....	1.03	1.03	2.59	0.36	0.90	0.09	0.49	0.16	1.51	0.58	2.70	0.46	11.90
1903.....	1.44	1.26	1.19	2.66	2.27	0.04	0.27	0.38	1.04	1.06	0	0.40	11.97
1904.....	1.89	1.90	2.16	0.26	2.81	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	1.08	1.37	2.13	1.65	1.56	0.59	0.53	0.73	0.94	1.05	0.96	1.03	13.57

CLIMATOLOGICAL DATA FOR UTAH, JUNE, 1904.

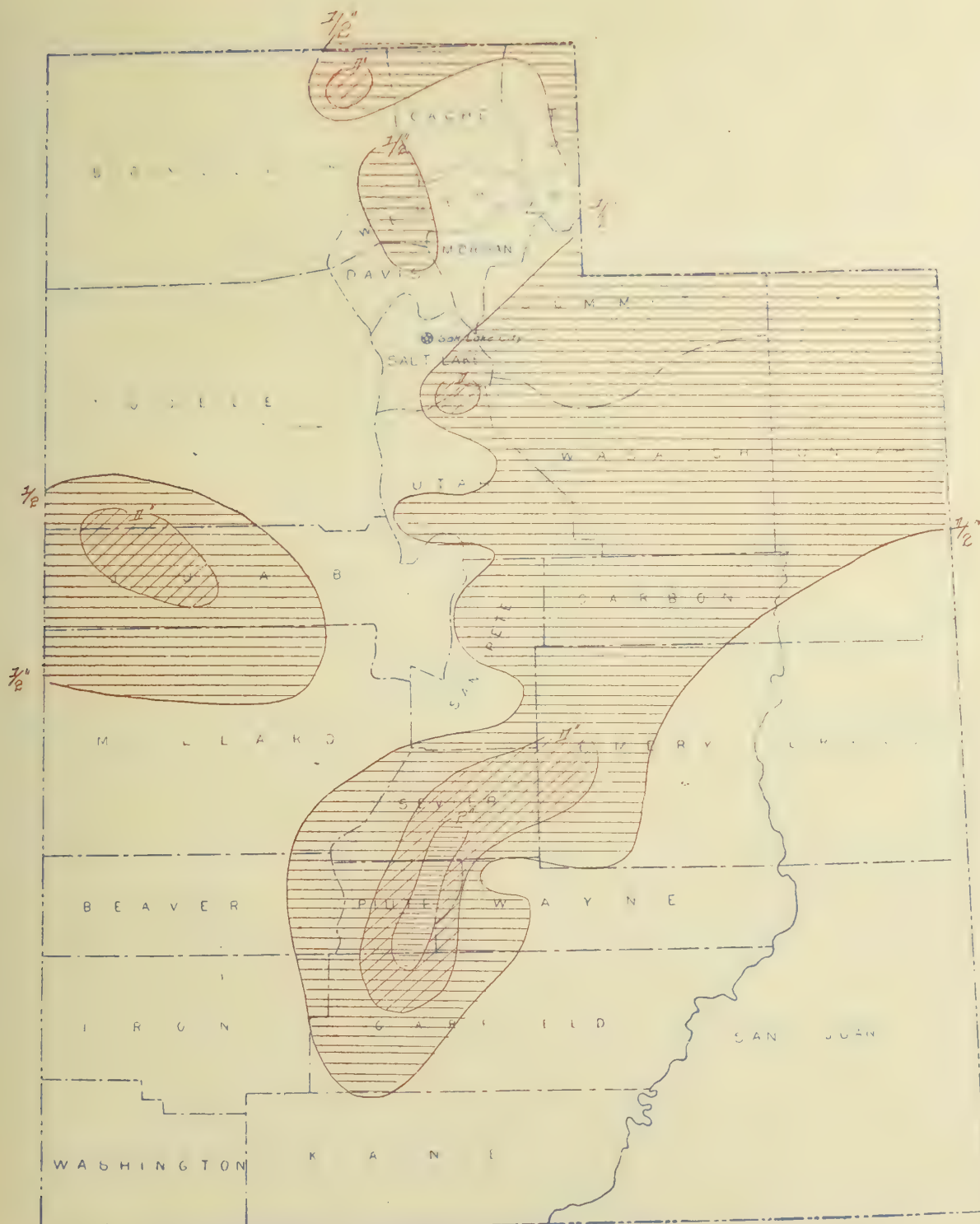
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine	Utah	4,900	8								1.39	+0.92	0.95		4					T. B. Whitty.
Blacksmith's Fork	CACHE										0.32	0.12			3	23	0	7		A. M. Israelson.
Blue Creek	Box Elder	4,387	26								1.10	+0.64	1.00		2	22	0	7	s.	Agent So. Pacific Co.
On the Rock	Summit										0.67	0.14			8	20	0	10	w.	David Moore.
Corinne	Box Elder	4,240	34	64.6	-6.8	96	29	39	*23	49	0.49	+0.01	0.49		1	19	9	2	s.	W. E. Johnson.
Evanston, Wyo.	Uinta	6,959	8	72.3	-2.3	80	29	21	25	41	0.80	+0.13	0.47		6	20	7	3	w.	Frank Tucker.
Farmington	Davis	4,207	4	62.0		92	*21	33	*2	59	0.50	+0.27	0.50		1	20	7	3	n.w.	Charles Boylin.
ft. Duchesne	Uintah	5,000	16	63.2	-2.7	92	28	37	*25	49	0.70	+0.49	0.29		8	19	3	8	w.	Ferdinand Rohricht.
Heber	Wasatch	5,606	11	58.0	-1.6	88	29	30	25	50	0.73	+0.35	0.40		4	16	6	8	s.	John Crook.
Henefer	Summit	5,301	5	58.2	-1.8	89	29	29	25	51	0.38	+0.16	0.15		4	21	3	6	w.	William Brewer.
Huntsville	Weber	5,100	9								0.38	-0.44	0.38		1	22	2	6		Lars Petersen.
Kelton	Box Elder	4,230	26	61.6	-8.8	90	*15	36	8	42	0.50	+0.19	0.50		1	19	10	1	ne.	Agent So. Pacific Co.
Logan-T13	CACHE	4,507	13	63.6	0	87	30	37	24	34	0.47	-0.14	0.36		3					James Dryden.
Meadowville	Rich	6,200	5	54.4		88	30	29	25	44	0.45	-0.07	0.30		2	24	1	5	w.	J. S. Moffat.
Millville	CACHE	4,818	9								0.42	-0.16	0.20		3					Fred Yeates.
Morgan	Morgan		1	58.2		87	29	30	25	47	0.22		0.10		3	23	5	2	w-sw	T. R. G. Welch.
Oakley, Idaho	Cassia	4,191	11	59.7	-4.0	94	29	26	13	56	0.50	-0.01	0.50		1	19	9	2	n.	Thomas Adams.
Ogden No. 1	Weber	4,310	3	66.6		91	29	38	24	36	0.52		0.44		2	23	4	3	n.w.	Enoch Farr.
Ogden No. 2	Weber	4,310	34	70.2	-1.7	92	29	42	1		0.9	-0.36	0.13		3	21	2	7	e.	W. H. Chevers.
Park City	Summit	6,846	7																	J. H. Hance.
Pocatello, Idaho	Benewah	4,488	4	62.2	+0.2	91	29	35	11	29	0.45	-0.64	0.28		5	17	11	2	e.	Weather Bureau.
Promontory	Box Elder	4,913	34	64.0	-4.3	95	29	40	*6		0.25	-0.24	0.25		1	25	1	4	w.	Agent So. Pacific Co.
Randolph	Rich										0.51		0.25		3	21	1	8	sw.	Wm. Rex.
Saltair Beach	Salt Lake			68.0		87	*15	49	5	31	0.23		0.13		3					Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	30	66.2	-0.8	92	29	44	12	35	0.27	-0.52	0.22		4	14	9	7	n.	Section Center.
Snowville	Box Elder	4,360	14	59.9	-2.0	91	*29	38	25	53	0.26	-0.23	0.20		2	19	9	2	s.	Joseph Robbins.
Terrace	Box Elder	4,550	34	65.1	-7.1	95	30	34	25	49	0.20	-0.66	0.20		1	19	7	4		Agent So. Pacific Co.
Tooele	Tooele	4,900	8	64.2	-3.0	90	29	38	*24	35	0.40	-0.26	0.20		3	24	4	2	s.	I. J. Elkington.
Weston, Idaho	Oneida	4,460	6	60.4	-1.3	88	*14	31	25	52	0.63	+0.11	0.58		4	20	2	8	n.	William Chatterton.
Woodruff	Rich	6,500	7	54.5	-1.4	90	29	25	25	55	0.47	+0.21	0.20		3	18	6	6	w.	Thomas Ashton.
Averages				62.4	-4.0						0.46	+0.01			3	21	4	5	w.	
MIDDLE.																				
Black Rock	Millard	5,802	4	62.4		88	*18	36	*25	45	0.04		0.04		1	13	14	3	n.	Willard Burbank.
Callao	Juab		2	64.2		94	*18	31	26	49	1.52		1.17		3	14	10	6		E. E. Edwards.
Castle Dale-T2	Emery	5,500	5	58.2	-7.2	86	14	29	26	48	0.69	+0.36	0.50		4	16	11	1		James Jeffs.
Cisco	Grand	4,385	12	73.4	+1.5	100	29	47	26	44	T.	-0.14	T.		0	15	10	5	w.	H. T. Matthews.
Deseret	Millard	4,541	10	62.8	-3.4	94	29	34	*5	52	0.60	+0.29	0.60		1	17	5	8	n.	S. W. Western.
Emery	Emery	6,260	4	56.2		75	28	35	6	30	1.30		1.05		2	10	12	8	sw.	H. C. Wickman.
Fillmore	Millard	5,100	14	66.8	-1.3	99	29	38	26	48	0.25	-0.35	0.15		2					J. J. Starley.
Garrison	Millard		1	63.5		93	29	30	25	50	0.41		0.34		3	20	9	1	s.	E. M. Smith.
Gov'm't Creek	Tooele	5,277	4	62.5		89	29	33	26	45	0.12		0.08		2	18	9	3	n.	Walter James.
Grand Junction, Col.	Mesa	4,668	13	69.2	-2.6	92	28	44	4	37	0.25	-0.10	0.18		4	12	14	4	n.w.	Weather Bureau.
Green River	Emery	4,080	7	72.5	-2.1	99	*16	44	8	52	0.07		0.07		1	15	8	7		J. T. Farrer, Jr.
Idapah	Tooele		1	58.7		90	9	25	26	55	0.51		0.30		3	15	10	5		Owen Sheridan.
Indianola	San Pete										0.48		0.26		6					R. H. Spencer.
Levan	Juab	5,010	14	61.0	-3.5	88	29	33	25	40	0.44	-0.11	0.20		4	18	7	5	sw.	William Brown.
Manti-T2	San Pete	5,575	10	60.2	-7.0	88	30	33	25	41	0.40	+0.29	0.40		1		20	2		W. M. Harmon.
Mt. Nebo	Utah	4,650	3	64.4		94	29	39	*25	43	0.66		0.25		5	16	12	2	n.	D. C. Walkey.
Mt. Pleasant	San Pete	5,859	12	62.2	-2.8	89	*28	33	24	39	0.76	+0.30	0.49		3	14	16	0		Web Greene.
Nephi	Juab										0.43		0.21		3					H. D. Allred.
Payson	Utah	4,637	12								0.21		0.20		2	16	10	4	sw.	W. C. Wightman, Jr.
Provo	Utah	4,532	12	62.2	-2.5	93	*18	33	25	48	0.42	-0.04	0.19		4	16	11	3	n.w.	Caleb Tanner.
Richfield	Sevier	5,323	14	63.7	-0.4	90	*27	34	24	53	0.80	+0.55	0.50		2	25	1	4		J. M. Lauritzen.
Scipio	Millard	5,260	9	62.6	-2.1	93	13	26	24	54	0.28	-0.04	0.10		5	13	8	9	sw.	Thomas Memmott.
Soldier Summit	Utah	7,474	12	51.4	-4.2	83	28	21	25	52	0.73	+0.56	0.35		6	17	8	5	sw.	Agent Rio Grande R. R.
Thistle	Utah	5,175	12	61.2	-1.9	97	28	29	24	54	0.82	+0.47	0.60		4	24	0	6		J. H. Mitchell.
Wellington	Carbon	5,540	5	64.0	-1.3	96	22	36	*5	48										E. E. Branch.
Averages				62.6	-2.6						0.52	+0.18			3	15	9	5	sw.	
SOUTHERN.																				
Aneth	San Juan	4,800	4	71.4		96	19	44	5	47	T.	-0.50	T.		0	17	12	1	w.	H. R. Antes.
Coyote	Garfield		3	52.8		80	20	28	*4	41	2.36		2.00		3	15	3	12		H. J. McCullough.
Escalante	Garfield	5,700	4	65.2		91	22	40	9	42	0.21		0.10		3	6	19	5	w.	W. G. Bleak.
Experiment Farm	Washington			71.4		102	*13	39	5	57										Joseph T. Atkin.
Frisco	Beaver	7,318	10	66.7	-2.3	93	27	41	7	47	0.11	-0.14	0.09		2	16	11	3	n.	S. N. Slaughter.
Giles	Wayne	4,000	9	62.8	-8.3	95	13	40	6	49	0.47	+0.25	0.10		8	18	9	3		J. C. White.
Grover (near)	Wayne	5,800	8	60.4	-2.2	83	*13	38	2	43	0.65	+0.21	0.45		2	23	2	5		Henry Cullum.
Hite	Garfield	3,000	5	76.8	-2.8	101	*19	51	6	44	0.08		0.08		1	12	17	1		F. W. Gibbons.
Kanab-T2	Kane	4,925	4	64.0		92	*13	36	8	50	T.		T.		0	16	0	12		E. M. Ford.
La Sal-T13 P13	San Juan	7,000	4					24			0.19		0.12		3	5	12			Mrs. G. W. Carpenter.
Loa	Wayne	7,000	12	60.0	+0.7	90	*13	34	4	50	0.15	-0.66	0.10		2					Michael Hansen.
Lund	Iron	5,092	4	66.8		94	*19	41	*6	49	0.05		0.05		1	21	9	0	ne.	B. R. Transeau.
Marysville (near)	Piute	6,180	5	59.8		88	*19	33	*5	49	0.83		0.23	T.	7	10	9	11	n.	G. T. Henry.
Minersville	Beaver	5,070	7																	R. W. Dotson.
Moab	Grand	4,000	15	70.9	-1.5	99	29	42	6	51	0.26	+0.04	0.10		4	7	14	9		Henry Crouse.
Modena	Iron</																			

NORTHEN.

* Indicates loc; *1, 101, etc.

* Indicates loc; *1, 101, etc.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
AUG. 27, 1904.

U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

July, 1904.

No. 9.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 69.7°, or 2.6° below the normal. The highest local monthly mean was 83.7° at Hite; the lowest was 6.0° at Coyoto. The highest temperature recorded was 109° at Green River on the 25th; the lowest was 27° at Woodruff on the 30th, giving an absolute range for the section of 79°. The greatest daily range for any station was 61° at Woodruff on the 30th. The highest temperatures of the month were generally recorded on the 19th and 21st; and the lowest on the 3rd, 14th and 30th.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 0.68 inch, or 0.10 inch above the normal. The northern portion of the State received an average excess of 0.20 inch; the middle, an excess of 0.03 inch; and the southern portion received practically the normal amount. The rains fell over the State about the same time, but the amount decreased southward. Two rain periods were general, one at the opening days of the month, and one near the close. The greatest monthly amount was 3.25 inches at Pinto; and the least, a trace at Callao, Emery and Ogden No. 2 (Union Depot). The greatest rainfall in any 24 consecutive hours was 2.00 inches at Kelton on the 12th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was south. The total number of miles recorded at Salt Lake City was 4,850; at Modena, 9,077; at Grand Junction, Colo., 4,534; and at Pocatello, Idaho, 5,799. The maximum velocity at Salt Lake City was 44 miles per hour from the west on the 12th; at Modena, 51 miles from the southwest on the 15th; at Grand Junction, Colo., 38 miles from the southeast on the 15th; and at Pocatello, Idaho, 31 miles from the west on the 12th.

The average number of clear days for the State during the month was 18; partly cloudy days, 9; cloudy days, 4. Determined from the records of automatic sunshine recorders, Salt Lake City had 80 per cent; Modena 71 per cent; Grand Junction, Colo., 78 per cent; and Pocatello, Idaho, 82 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 33 per cent, the lowest observed reading being 11 per cent on the 15th; at Modena, 34 per cent, the lowest observed reading being 5 per cent on the 3rd; at Grand Junction, Colo., 37 per cent, the lowest observed reading being 14 per cent on the 11th, 12th and 17th; and at Pocatello, Idaho, 41 per cent, the lowest observed reading being 9 per cent on the 25th.

There was an average of 3 days with .01 inch or more precipitation, in every section of the State.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Halo, solar.—Pinto, 30.
 Lightning.—Ogden, 11.
 Rainbow.—Henefer, 22, 28.
 Hot winds.—St. George, 11, 20.
 Frost, light.—Castle Rock, 12; Huntsville, 30; Pine Valley, 6; Woodruff, 14.
 Frost, killing.—Castle Rock, 30; Meadowville, 30; Panguitch, 4; Woodruff, 30.
 Hail.—Farmington, 28; Government Creek, 1; Kelton, 12; Meadowville, 5; Morgan, 7, 28; Pine Valley, 29; Pinto, 21; Plateau, 6, 29; Tropic, 23.
 High winds.—Aneth, 2, 4, 12, 14, 19-23, 26-28; Castle Rock, 15; Cisco, 6; Emery, 12; Escalante, 12, 20; Fort Duchesne, 1, 20, 21, 23; Garrison, 8, 12, 14, 15; Government Creek, 12, 14, 15; Giles, 10; Heber, 15; Henefer, 2, 5, 12, 15, 22, 28; Huntsville, 28; La Sal, 12; Levan, 12, 14, 15; Lund, 4, 12, 14-17; Marysville, 15; Meadowville, 12, 15, 28; Mount Nebo, 12, 14, 15; Ogden, 1, 5, 15, 28; Parowan, 12, 15; Payson, 15; Pinto, 4, 15; Utah Lake Pumping Station, 15; Ranch, 4, 10, 12, 14; St. George, 14, 15, 21; Salt Lake City, 1, 2, 7, 12, 15, 28; Scipio, 14, 15; Tooele, 14, 15; Tropic, 13, 16; Woodruff, 15.
 Thunderstorms.—Black Rock, 7, 21-24, 28-30; Callao, 6, 23, 27; Castle Rock, 1, 5-7, 21, 24, 28; Farmington, 6, 7, 28; Fort Duchesne, 12, 29; Government Creek, 1, 2, 5-7, 22, 27, 28; Giles, 20, 23, 26-29; Heber, 1, 2, 6, 12, 20, 23; Henefer, 1, 2, 5-7, 12, 15, 21-23, 28; Huntsville, 1, 6, 28; Indianola, 7; Kanab, 21-23, 26, 28-30; La Sal, 7, 15, 19-23, 27, 29, 31; Levan, 5, 6, 20-23, 28, 29; Manti, 29; Marysville, 6, 21, 23, 27-29; Meadowville, 1, 4-7, 28; Moab, 2, 6, 15, 19, 20, 22, 23, 27-29; Modena, 21, 23, 27-30; Mount Nebo, 5, 6, 28; Morgan, 7, 12, 28; Parowan, 20-24, 27-30; Panguitch, 20; Payson, 5, 23; Pine Valley, 21, 27, 29; Pinto, 19-21, 26, 27, 31; Plateau, 2, 6, 22, 27, 28; Utah Lake Pumping Station, 1, 2, 4, 6, 20, 23, 26-28; Ranch, 22, 23, 28, 30; St. George, 21, 29; Salt Lake City, 1, 2, 5-7, 27, 28; Scipio, 20-23, 28; Snowville, 1, 2, 5, 7, 11, 12, 27, 28; Tooele, 21, 22; Tropic, 2, 21-24, 27-31; Woodruff, 6, 7, 12, 26.

OBSERVERS' REMARKS.

Alpine.—The past month was very windy, and much damage was done to trees and crops; some farmers have begun to cut the second crop of lucerne.—T. B. Whitby.

Castle Rock.—On night of 29th tomato plants and tender vines were slightly frozen; hay crops good; grass on hills fine; cattle fat.—David Moore.

Emery.—Scattered showers fell in some parts of the mountains during the latter part of the month.—H. C. Wickman.

Government Creek.—Favorable month for farm work; light thunder showers were frequent around the mountains.—Walter James.

Heber.—Very pleasant month; much thunder, but not much rain, as nearly all storms turned toward the mountains; a severe gale from the north occurred on the 12th.—John Crook.

Henefer.—Month favorable for growth; crops doing well; range in need of rain.—Wm. Brewer.

Huntsville.—The weather during July has been fine and favorable for haying; an average crop has been harvested in good condition.—Lars Petersen.

Kanab.—The fore part of the month was clear, but some of the severest windstorms that ever visited this region occurred during the latter part of the month, and brought some much needed rain. This storm caused some damage, but was also of much benefit.—E. M. Ford.

La Sal.—On July 29th a cloudburst occurred in the mountains that caused a flood at La Sal, but there was slight damage. The water was between 2 and 3 feet deep.—Mrs. Carpenter.

Levan.—An ideal month, with warm days and cool nights.—Wm. Brown.

Lund.—Many cloudbursts and severe washouts occurred during latter part of month, causing much damage to crops in some localities.—B. R. Transeau.

Marysvale.—The first crop of alfalfa was secured in good condition; the yield was about average; grain ripening; precipitation during the last decade was very beneficial to ranges, and replenished the supply of irrigation water.—Geo. T. Henry.

Meadowville.—The month has been very dry, with high winds and cold nights; first crop of lucerne is all in stack; the frost on the 30th damaged potatoes and lucerne that had been left standing for seed.—J. S. Moffatt.

Mount Nebo.—July has been a fine month; farmers are cutting grain; peaches are ripening; three days of high wind caused some damage to apples and pears.—D. C. Walkey.

Morgan.—The storm of the 26th was very severe for about 20 minutes, during which period .50 inch of rain fell, accompanied by hail, which cut vegetation and the foliage of trees somewhat. T. R. G. Welch.

Pinto.—The fore part of the month was favorable for hay harvest, which was secured in good condition. Wet weather prevailed during the latter part, which was favorable for corn, potatoes, etc. Some lodging of heavy grain was caused by rain and wind.—J. H. Harrison.

Utah Lake Pumping Station.—Prospects are good for a full supply of water for the remainder of the season.—W. A. Knight.

Ranch.—The fore part of the month was very dry and windy, but considerable rain fell during the latter part, which was of great benefit to vegetation. The rain saved the arid land grain, and prospects point to a large yield.—J. W. Seaman.

Woodruff.—A very remarkable month. The frost on the night of the 30th killed potatoes and other tender vines.—Thos. Ashton.

WEATHER AND CROPS.

The opening days of the month were marked by a general, severe thunderstorm period, during which considerable widespread devastation occurred. Heavy wind, rain and hail were the causes of much injury to grain fields and fruit orchards. However, the precipitation was very helpful, and during the middle decade clear skies and high temperatures gave all growing crops a noteworthy impetus. Thunderstorms, accompanied by hail and high wind, occurred in scattered localities about the 15th, but the damage was slight. The warmest weather occurred about the beginning of the third decade, when haying and harvesting had reached their height. Heavy thunderstorms were again frequent toward the close of the month, and wind wrought havoc in hay and grain fields; hail beat up green crops considerably and shattered out ripe grain; and water caused additional damage by washing and flooding. Immediately following this storm period, temperatures took a sudden drop, and the freezing point was reached in many localities. Fortunately, all crops were practically beyond danger, and no decided injury resulted.

Every crop in the section made rapid progress during the month, notwithstanding the retarding effects of the frequent storms. The fine, warm weather between the rains hastened the harvest of grain, and made invigorating growths in lucerne, beets, corn, potatoes and tomatoes. Much fruit was blown from the trees early in the month, but at the close of July early apples of a splendid quality were on the markets in abundance. Lucerne was cut the first time early in the month; fall grain was harvested toward the middle of the month, and during the last decade threshing had begun in quite a general way, and spring grain was nearing harvest, with indications for excellent yields. Lucerne was cut the second time, with a crop equal to the first in every respect. July closed with the third growth of hay showing up well. Grain yields were far above the average, practically without exception, especially on arid farms, where surprising returns

were made, many reputable estimators placing the yield of wheat on arid farms at 15 bushels per acre. Beets were in a very thriving condition, and as a rule water was plentiful for the future needs of the crop; the prospects are for a crop as good or better than last year. Corn tasseled and silked early, and at the close of the month many fields were furnishing roasting ears for table use. Potatoes were setting well and were in fine condition. Apples, peaches and early apples of a good quality were plentiful. The berry season culminated about the beginning of the second decade; much of this fruit was saved in fine condition. Pastures were green throughout the month. The rains, coming at very favorable intervals, were quite favorable to pasturage, and stock has done well.

GREAT SALT LAKE.

The stage of the water on July 1st was 1.4 feet above the zero of the gage; on July 15th it was 1.3 feet above, and on August 1st it registered 1.0 foot above the zero.

Comparative Temperature and Precipitation Data for July During the Past Thirteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	72.8	110	27	0.28
1893	70.8	110	24	0.79
1894	70.4	109	26	0.71
1895	70.0	110	33	0.57
1896	72.0	111	33	1.81
1897	68.7	110	23	0.55
1898	73.4	115	28	0.35
1899	73.3	107	30	0.66
1900	72.6	111	30	0.09
1901	75.5	115	27	0.41
1902	68.4	112	17	0.32
1903	71.0	110	27	0.52
1904	69.7	109	27	0.68

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, MT. PLEASANT, SAN PETE CO., UTAH.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1894	.....	.....	39.4	46.2	55.8	59.5	72.8	72.5	61.0	53.7	44.8	29.4	.....
1895	24.0	26.7	33.7	46.8	53.4	63.1	70.8	72.6	62.2	53.8	35.4	23.8	47.2
1896	30.9	30.6	37.0	44.0	51.8	.....	71.2	71.4	65.1	55.5	33.1	33.0	.....
1897	27.8	27.0	32.0	49.0	63.2	65.8	72.2	74.4	61.6	48.8	40.8	24.3	49.2
1898	21.8	33.4	35.1	53.2	55.0	69.2	76.8	75.2	64.7	47.0	35.0	24.2	49.2
1899	27.0	27.6	36.6	47.4	52.4	65.4	74.6	68.6	65.9	46.8	41.8	25.0	48.3
1900	32.4	32.6	44.6	43.9	56.2	68.0	71.6	67.6	56.6	47.9	40.9	31.0	49.4
1901	29.6	32.4	38.0	48.4	56.9	61.5	74.9	71.6	60.2	52.6	41.7	28.8	49.7
1902	29.2	34.8	33.0	47.5	56.1	66.8	68.6	.....	60.6	.....	.....	24.9	.....
1903	27.2	18.8	37.4	45.4	52.5	65.6	69.5	72.6	58.9	49.0	40.6	28.6	47.2
Mean	27.8	29.3	36.7	47.2	55.3	65.0	72.3	71.8	62.0	50.6	39.3	27.3	48.6

TOTAL PRECIPITATION.

1894	.....	.....	1.70	0.51	0.31	0.80	0.08	0.40	2.10	0.10	0	1.86	.....
1895	1.90	1.70	2.00	0.68	1.20	0	0.11	0.22	0.75	0.52	1.90	1.00	11.38
1896	0.3	0.40	0.93	1.36	1.09	.....	2.69	0.87	0.58	0.46	1.75	0.20	.....
1897	1.3	3.10	2.82	0.10	0.58	0.39	0.59	0.05	2.66	2.30	0.75	1.90	16.54
1898	0.70	0.70	1.50	1.15	3.59	0.52	0.30	0.56	0	0.29	0.60	0.50	10.41
1899	1.40	3.60	2.29	0.57	1.02	0.99	0.76	1.24	0	1.80	0.88	2.10	16.65
1900	0.3	0.60	0.10	2.56	0.32	0	T.	0.16	1.78	0.59	1.56	T.	8.03
1901	0.50	2.16	2.37	0.13	0.58	0.29	0.19	1.64	0.16	1.32	0.67	1.14	11.21
1902	1.30	1.28	1.05	1.91	0.27	0.09	0.38	0.17	0.44	.....	.....	1.32	.....
1903	1.2	1.10	1.40	1.41	1.49	0.59	0.56	T.	1.57	0.58	0.20	0.20	10.34
Mean	1.01	1.63	1.62	0.98	1.05	0.41	0.57	0.53	1.00	0.88	0.92	1.02	12.08

CLIMATOLOGICAL DATA FOR UTAH, JULY, 1904.

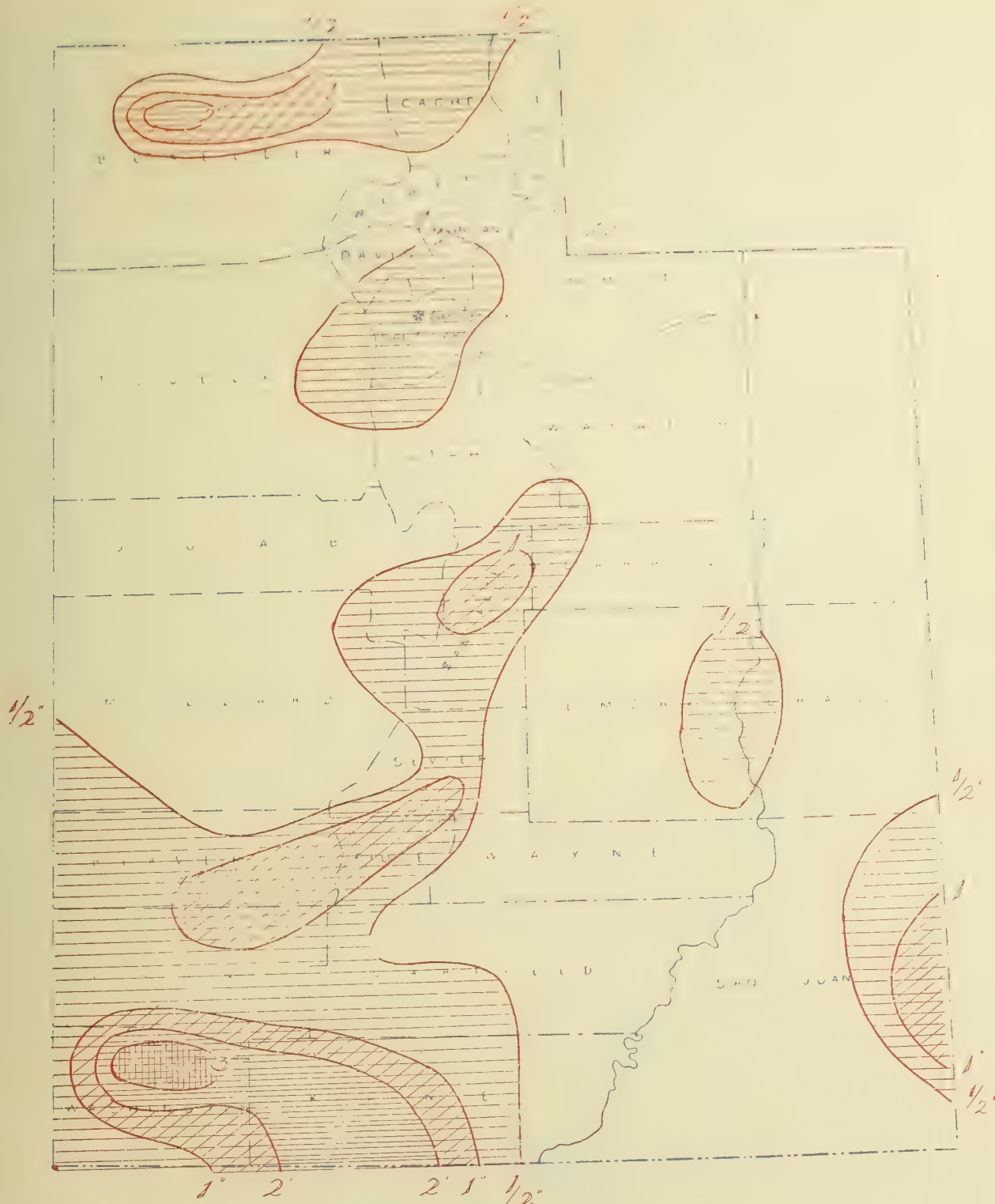
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alpine	Utah	4,900	8								0.75	+0.21	0.35	0.0	3					T. B. Whitby.
Blacksmith's Fork	Cache																			A. M. Isenelson.
Blue Creek	Box Elder	4,387	26								1.11	+0.89	1.00	0.0	2	21	0	19	S.	Agent So. Pacific Co.
Castle Rock	Summit										0.43		0.33	0.0	3	22	0	9	W.	David Moore.
Corinne	Box Elder	4,240	34	75.6	-3.8	105	20	47	*14	45	0.42	-0.04	0.42	0.0	1	23	4	4		W. E. Johnson.
Evanston, Wyo.	Uinta	6,959	8	59.8	-2.0	86	20	33	*16	47	0.17	-0.17	0.23	0.0	4	24	7	9	SW.	Frank Tucker.
Farmington	Davis	4,267	4	70.1	-2.9	96	*21	37	16	43	0.86	+0.62	0.56	0.0	3	21	9	1	var.	Charles Boylin.
Fl. Duchesne	Uintah	5,000	16	70.5	-0.6	97	*11	43	14	48	0.37	-0.16	0.12	0.0	7	19	3	9	W.	Ferdinand Rohricht.
Heber	Wasatch	5,606	11	64.4	-1.5	93	*19	36	14	51	0.29	-0.08	0.13	0.0	5	23	6	2	S.	John Crook.
Henefer	Summit	5,301	5	64.7	+0.7	91	*20	34	14	54	0.53	+0.22	0.20	0.0	6	19	12	0	W.	William Brewer.
Huntsville	Weber	5,100	9								0.36	+0.01	0.17	0.0	3	22	8	1		Lars Petersen.
Kelton	Box Elder	4,230	26	70.6	-7.5	98	*20	42	*30	47	2.00	+1.68	2.00	0.0	1	28	2	1	S.	Agent So. Pacific Co.
Logans	Cache	4,310	13	71.8	+1.0	95	20	46	16	35	0.52	+0.12	0.27	0.0						James Dryden.
Monticello	Rich	6,200	5	63.0	-1.7	87	20	36	30	43	0.50	-0.12	0.30	0.0	3	22	5	4	W.	J. S. Moffat.
Millville	Cache	4,818	9								0.59	+0.16	0.46	0.0	3	22				Fred Yates.
Morgan - T2	Morgan		1	64.8		91	*20	34	30	45	0.86		0.65	0.0	3	24	5	0	SW.	T. R. G. Welch.
Oakley, Idaho	Cassia	4,191	11																	Thomas Adams.
Ogden No. 1	Weber	4,310	3	73.6	+1.0	97	20	45	16	33	0.13	-0.41	0.03	0.0	1	24	6	1	NW.	Enoch Farr.
Ogden No. 2 †	Weber	4,310	34	76.4	-2.9	90	*20	45	9		T.	-0.25	T.	0.0	0	28	0	3		W. H. Chevers.
Park City	Summit	6,846	7																	J. H. Hance.
Pocatello, Idaho	Bannock	4,488	4	68.9	-1.4	96	22	41	30	39	0.49	+0.04	0.23	0.0	8	11	20	0	E.	Weather Bureau.
Promontory †	Box Elder	4,913	34	73.6	-3.7	100	26	55	12		0.50	+0.31	0.50	0.0	1	24	0	7	n.	Agent So. Pacific Co.
Rancho P. S.	Rich										0.67		0.37	0.0	5	22	4	5	SW.	Wm. Rex.
Saltair Beach	Salt Lake			71.7		94	21	57	*2	26	0.68		0.31	0.0	4					Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	30	73.9	-1.6	97	20	51	*16	31	0.59	+0.06	0.33	0.0	4	23	6	2	SE.	Section Center.
Snowville	Box Elder	4,300	14	66.6	-2.5	97	*19	34	30	54	0.25	-0.15	0.25	0.0	1	13	18	0	S.	Joseph Robbins.
Terrace	Box Elder	4,550	34	72.0	-8.4	102	21	40	*2	46	0.30	+0.20	0.10	0.0	3	9	19	3		Agent So. Pacific Co.
Tooele	Tooele	4,900	8	71.8	-1.9	94	20	49	16	36	0.55	+0.10	0.17	0.0	5	24	4	3	S.	I. J. Elkington.
Weston, Idaho	Oneida	4,460	6	66.1	-1.9	91	*20	34	30	49	0.97	+0.46	0.78	0.0	5	22	5	4	S.	William Chatterton.
Woodruff	Rich	6,500	7	60.6	-0.3	90	22	27	30	61	0.34	-0.05	0.21	0.0	3	24	4	3	W.	Thomas Ashton.
Averages				69.8	-3.6						0.56	+0.20			3	22	6	3	S.	
MIDDLE.																				
Black Rock	Millard	5,802	4	67.0	-2.4	92	19	39	3	47	0.05	-0.27	0.03	0.0	2	21	8	2	S.	Willard Burbank.
Callao	Juab		2	70.3		97	*21	36	2	46	T.		T.	0.0	0	17	13	1	S.	E. E. Edwards.
Castle Dale	Emery	5,500	5	65.8	-3.4	92	8	36	14	48	0.09	-0.51	0.09	0.0	1	18	13	0		James Jeffs.
Cisco	Grand	4,385	12	79.5	-0.5	106	26	51	17	48	0.44	+0.22	0.44	0.0	1	20	11	0	W.	H. T. Matthews.
Deseret	Millard	4,541	10																	S. W. Western.
Emery	Emery	6,260	4	61.2		79	*17	43	*2	29	T.		T.	0.0	0	8	12	11	SW.	H. C. Wickman.
Fillmore	Millard	5,100	14	76.2	+1.4	105	20	49	*1	50	0.07	-0.49	0.07	0.0	1					J. J. Starley.
Garrison	Millard		1	71.1		100	20	42	16	49	0.93		0.45	0.0	4	16	11	1	S.	E. M. Smith.
Govern't Creek	Tooele	5,277	4	71.2		96	*20	40	16	45	0.41		0.31	0.0	2	26	5	0	S.	Walter James.
Grand Junction, Col.	Mesa	4,608	13	76.3	-1.5	98	19	55	2	38	0.54	-0.01	0.36	0.0	4	17	14	0	SE.	Weather Bureau.
Green River	Emery	4,080	7	79.0	-0.6	109	25	50	17	53	0.92		0.61	0.0	2	20	7	4		J. T. Farrer, Jr.
Ibapah	Tooele		1	65.0		94	*19	32	15	53	0.15		0.62	0.0	2	8	23	0		Owen Sheridan.
Idianola	San Pete										1.04		0.62	0.0	4					R. H. Spencer.
Levan	Juab	5,010	14	69.6	-2.1	94	20	43	2	41	0.79	+0.22	0.31	0.0	6	21	8	2	SW.	William Brown.
Manti	San Pete	5,575	10	68.4	-3.0	95	20	43	14	41	0.61	+0.07	0.31	0.0	4	10	21	0		W. M. Harmon.
Mt. Nebo	Utah	4,050	3	72.4		96	20	49	1	42	0.39		0.23	0.0	4	22	9	0	S.	D. C. Walkey.
Mt. Pleasant	San Pete	5,859	12	70.3	-2.0	95	20	46	12	46	1.12	+0.43	0.34	0.0	4	9	22	0		Web Greene.
Nephi	Juab										0.94		0.33	0.0	4					H. D. Allred.
Payson	Utah	4,627									0.32		0.24	0.0	2	18	13	0	SW.	W. C. Wightman, Jr.
Provo	Utah	1,532	12	69.8	-3.4	96	*20	44	17	49	0.39	+0.18	0.26	0.0	5	11	20	0	NW.	Caleb Tanner.
Richfield - P6	Sevier	5,323	14	68.6	-2.4	93	18	41	15	49	0.27	-0.08	0.25	0.0	2	20	9	2		J. M. Lauritzen.
Scipio	Millard	5,200	9	70.2	-0.4	96	*19	41	*13	48	0.50	-0.16	0.21	0.0	4	16	9	6	SW.	Thomas Menmott.
Soldier Summit	Utah	7,474	12	60.0	-2.5	88	19	30	14	52	0.55	-0.03	0.50	0.0	2	17	14	0		Agent Rio Grande R. R.
Thistle	Utah	5,175	12	71.0	+0.3	105	26	40	13	57	0.32	-0.26	0.20	0.0	2	28	0	3		J. H. Mitchell.
Wellington - T3	Carbon	5,540	5	67.3	-1.7	97	*19	42	13	47	0.15	-0.20	0.15	0.0	1					E. E. Branch.
Averages				69.7	-1.6						0.45	+0.03			3	17	12	2	S.	
SOUTHERN.																				
Aneth	San Juan	4,800	4	77.6		100	18	48	18	52						20	10		W.	H. R. Antes.
Coyote	Garfield		3	56.0		84	18	30	*9	45	0.11		0.07	0.0	2	22	3	6		H. J. McCullough.
Escalante	Garfield	5,700	4	70.2		98	15	41	18	51	0.86		0.60	0.0	3	13	13	5		W. G. Bleak.
Experiment Farm	Washington			77.6		108	19	46	*16	58						22	0	9		Joseph T. Atkin.
Frisco 8	Beaver	7,318	10	71.9	-2.2	99	26	50	*1	39	0.86	+0.06	0.35	0.0	4	18	9	3	S.	S. N. Slaughter.
Giles	Wayne	4,000	9	71.8	-6.5	97	19	47	*7	43	0.31	-0.10	0.11	0.0	4	22	7	2		J. C. White.
Grover (near)	Wayne	5,800	8	62.2	-5.3	86	*20	39	29	43	0.39	-0.76	0.17	0.0	4	18	2	11		Henry Cullum.
Hite	Garfield	3,000	5	83.7		105	18	60	*4	44	0.15		0.15	0.0	1	18	13	0		F. W. Gibbons.
Kanab - T2	Kane	4,925	4	67.4		97	19	39	4	53	2.50		1.60	0.0	3	20	0	9		E. M. Ford.
La Sal	San Juan	7,000	4	63.5		87	11	47	*6	32	0.82		0.22	0.0	11	10	21	0		Mrs. G. W. Carpenter.
Loa	Wayne	7,000	12	67.4	+1.4	100	20	38	*3	53										Michael Hansen.
Lynd - T13	Iron	5,092	4	70.0		91	18	45	*1	46						18			NE.	B. R. Transeau.
Marysville (near)	Piute	6,180	5	66.1		92	26	39	*3	49	1.12		0.45	0.0	8	14	4	13	S.	G. T. Henry.
Minersville	Beaver	5,070	7																	R. W. Dotson.

NORTHERN.

* Indicates 100; *1, 101, etc.,

* Indicates 100; *1, 101, etc.,

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, JULY, 1904.

Sections and stations.	Day of month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine.....	T.	T.				T.					T.												.08				.32	.35				0.75	
Blacksmith's Fork.....																																1.11	
Blue Creek.....	.10																				.01							1.00				0.43	
Castle Rock.....		.07					.03																	T.						.33		0.47	
Coriame.....					.42																											0.42	
Evanston, Wyo.....						.09	.10					.05																.23				0.47	
Farmington.....						T.	.25					.05																.56				0.86	
Ft. Duchesne.....	.12	.05				.05						.04			.01									.03						.07		0.37	
Heber.....	.05	T.				T.						T.															*	.13	*	.11		0.29	
Henefer.....		.17	T.			T.	.03					T.	.01		.02						T.	T.	T.						.10	.20		0.50	
Huntsville.....	.17					.05																					T.		.14			0.36	
Kelton.....					T.							2.00																				2.00	
Logan.....		.27																											.25			0.52	
Mea lowville.....	T.			T.		.30	.10																									0.50	
Millville.....	.11				T.	.46									T.														.02			0.59	
Morgan.....		.03					.18					T.																	.65			0.86	
Oakley, Idaho.....																																	
Ogden No. 1.....																													.03			0.03	
Ogden No. 2.....												T.															T.		.03			T.	
Park City.....																																	
Pocatello, Idaho.....			.01	.06	.06		.01	T.				.03	.08								T.	T.		T.			.23		.01			0.49	
Promontory.....				.50																								T.				0.50	
Randolph.....	.01				.37		.02	.24														T.	T.							.03		0.67	
Saltair Beach.....	.08					.31	.09																					.20				0.68	
Salt Lake City.....	T.	.22	T.			T.	T.	.01					T.											T.	T.			T.	.14	.19		0.59	
Snowville.....					.25																											0.25	
Terrace.....						.10						.10																	T.	.10		0.30	
Tooele.....	.13					.17																.06						.05	.14			0.55	
Utah Lake Pumping Station.....	.02	.05				.03																						.13	.45			0.68	
Weston, Idaho.....		.10			.78							.04										.02		T.					.03			0.97	
Woodruff.....					.08	.21						.05														T.						0.34	
MIDDLE.																																	
Black Rock.....		T.																				T.	.02						.03			0.05	
Callao.....						T.																	T.				T.					T.	
Castle Dale.....	T.	T.				.09							T.															T.	T.	T.		0.09	
Cisco.....	T.																						T.						.44			0.44	
Deseret.....																																T.	
Emery.....						T.																						T.		T.		T.	
Fillmore.....																												T.	T.	T.		T.	
Garrison.....	T.	T.			T.	T.	T.				T.											T.	T.	.41	.45		T.	.05	T.	T.	.02	0.93	
Government Creek.....	T.				T.		T.																					T.	T.	.31	.10		0.41
Grand Junction, Colo.....	T.				T.							T.	.01		T.	T.					.04							T.	T.	.36		0.54	
Green River.....																										T.		T.		.61	.31	T.	0.92
Idapah.....	.03																															0.15	
Indianola.....						.07																						.18	.17			1.04	
Levan.....		.03				T.															T.	.08		.31				.04	.03	.30		0.79	
Manti.....	T.																					T.			.19			T.	.31	.67	.04	0.61	
Mount Nebo.....					.23	.07																					T.	.05	.04			0.39	
Mount Pleasant.....	.18																											T.	.26	.34		1.12	
Nephi.....						.29							.13															.33	.19			0.94	
Provo.....		.01				.01	.03																						.26	.34		1.12	
Richfield.....						T.																							.33	.19		0.39	
Scipio.....						.06																				.25			.02	.08		T.	0.27
Soldier Summit.....																											T.	.19	T.	.04		0.50	
Thistle.....																													.05	.50		0.55	
Wellington.....																									.12				.20			0.32	
SOUTHERN.																																	
Aneth.....																																0.11	
Coyote.....																				T.	T.						.07	.04				0.86	
Escalante.....																												.06	.20		.60		0.86
Frisco.....						T.																T.	.27	.02				.22	.35			0.31	
Giles.....																												.07	.11	.10		0.39	
Grover (near).....																												.17	.02			0.15	
Hite.....															.15												T.		T.	T.	T.	0.15	
Kanab.....																												.60	.30	.60		2.50	
La Sal.....						.03									.04					.04	.03		.08		.02	.02	.03		.22	.19	.12	0.82	
Loa.....																																	
Lund.....																																	
Marysville (near).....					T.	.04															T.	.09		.45	.01		.14	.13	.21	.05	T.	1.12	
Minersville.....																																0.37	
Monab.....		.04																			T.		.18				T.	.0	.14			0.66	
Modena.....																												.02	.10	.03	.20	T.	0.69
Monticello.....																																	

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

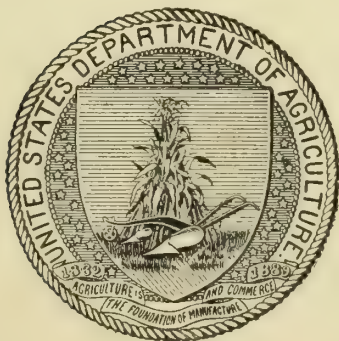
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

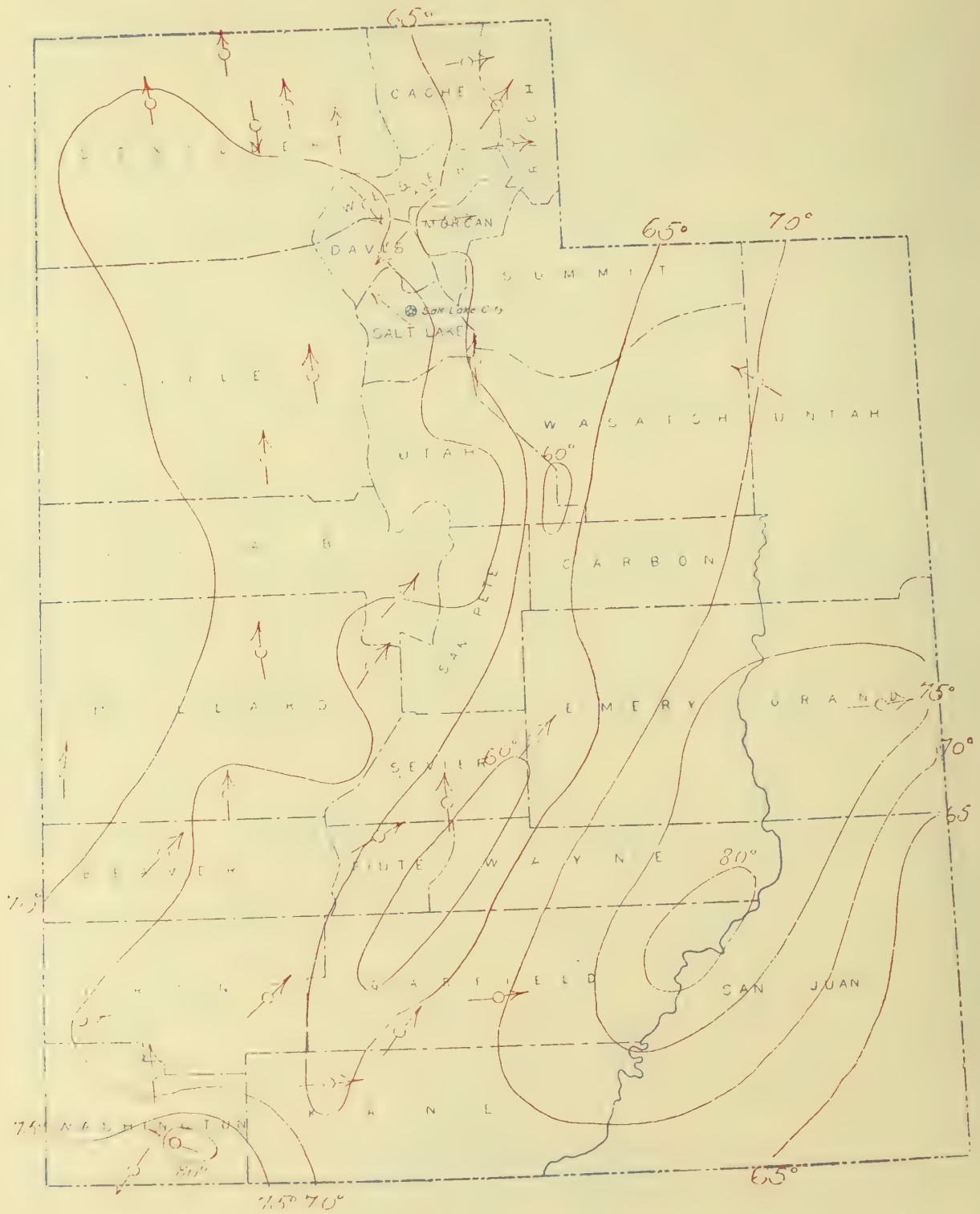
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
SEPT. 24, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

August, 1904.

No. 10.

WEATHER.

The weather during the month was remarkably stormy and unsettled. Thunderstorms were frequent and severe, especially in the southern portion of the section, where the accompanying precipitation was in many instances excessive, causing much flooding of lowlands. Temperatures were about normal, excepting from the 21st to the 23rd, when a severe cold spell overspread the section, reaching its climax on the night of the 21st-22nd, the thermometer in the more elevated districts of the section during this period falling below the freezing point. Severe frosts occurred that damaged vegetation considerably. The supply of irrigation water was replenished by the many storms during the month, and in many localities the ditches and reservoirs were full to overflowing.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 69.4°, or 0.9° below the normal. The highest local monthly mean was 82.0° at Hite; the lowest was 55.0° at Coyoto. The highest temperature recorded was 104° at St. George on the 5th and 6th, Rockville on the 6th and Hite on the 14th; the lowest was 22° at Soldier Summit on the 22nd, giving an absolute range for the section of 82°. The greatest daily range for any station was 61° at Deseret on the 22nd, and at Hbapah on the same date. The highest temperatures of the month were generally recorded on the 6th; and the lowest on the 22nd.

PRECIPITATION.

The average precipitation, determined from the reports of 67 stations, was 1.06 inches, or exactly normal. Over the northern portion the rainfall was slightly below normal, over the middle the amount was normal, while over the southern portion there was an excess. The greatest monthly amount was 3.91 inches at Monticello, while no rainfall occurred at Kelton and Promontory. The greatest in any 24 consecutive hours was 2.00 inches at Monticello on the 18th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was south. The total number of miles recorded at Salt Lake City was 4,272; at Modena, 7,468; at Grand Junction, Colo., 4,039; and at Pocatello, Idaho, 5,813. The maximum velocity at Salt Lake City was 36 miles per hour from the south on the 11th; at Modena, 37 miles from the southwest on the 22nd; at Grand Junction, Colo., 26 miles from the west on the 20th; and at Pocatello, Idaho, 28 miles from the southeast on the 12th.

The average number of clear days for the section during the month was 12; partly cloudy days, 12; cloudy days, 7. Determined from the records of automatic sunshine recorders, Salt Lake City had 66 per cent; Modena 60 per cent; Grand Junction,

Colo., 68 per cent; and Pocatello, Idaho, 81 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 38 per cent, the lowest observed reading being 11 per cent on the 8th; at Modena, 54 per cent, the lowest observed reading being 8 per cent on the 5th; at Grand Junction, Colo., 48 per cent, the lowest observed reading being 14 per cent on the 6th; and at Pocatello, Idaho, 38 per cent, the lowest observed reading being 8 per cent on the 8th.

There was an average of 6 days with .01 inch or more precipitation; 5 over the northern; 4 over the middle, and 10 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Rainbow.—Henefer, 23.

Earthquake.—Marysville, 30.

Fog.—Castle Rock, 18; Heber, 28.

Halo, lunar.—Levan, 24; Pinto, 31; Salt Lake, 22-24; Tropic, 19.

Hail.—Frisco, 26; Indianola, 7; Marysville, 21; Park City, 12, 27; Tropic, 7, 31.

Frost, light.—La Sal, 21; Marysville, 22; Mt. Pleasant, 21; Ogden, 21, 22; Snowville, 22; Utah Lake Pumping Station, 21.

Frost, killing.—Blacksmith's Fork, 20, 21; Castle Rock, 21, 22; Deseret, 29; Heber, 22; Henefer, 21, 22; Huntsville, 20, 21; Indianola, 22; Meadowville, 21, 22; Morgan, 21, 22; Park City, 21; Payson, 22; Randolph, 20, 21.

High wind.—Deseret, 12, 23; Ft. Duchesne, 6; Government Creek, 9; Henefer, 20; Huntsville, 12; Meadowville, 20; Modena, 2-4, 7-12, 15, 16, 19, 20, 22, 23, 25-28, 30, 31; Randolph, 19; Salt Lake City, 11, 12, 20; St. George, 2; Utah Lake Pumping Station, 20, 31.

Thunderstorms.—Black Rock, 8, 9, 15, 16, 25-27; Blacksmith's Fork, 11, 12, 14, 16, 17; Callao, 19; Castle Rock, 11, 12, 14-17, 26, 27, 29; Coyoto, 5, 10, 12, 25, 27; Farmington, 11, 16, 17, 29; Frisco, 8-10, 12, 15, 25, 26; Garrison, 7-10, 12-15; Giles, 2, 8, 10, 11, 16, 31; Government Creek, 11, 14, 16, 17; Grand Junction Colo., 2, 7, 8, 10-15, 17-20, 27-31; Heber, 11-13, 16-20; Henefer, 11, 12, 14-17, 23, 26, 27, 29; Huntsville, 11, 14, 24; Indianola, 22; La Sal, 1, 3; Levan, 11-14, 17, 24, 25, 27; Marysville, 7, 8, 13-17, 21, 24, 26; Meadowville, 11, 12, 14, 15, 17, 27; Moab, 1-3, 10, 12-14, 16, 17, 19, 20, 25, 27, 28, 31; Modena, 7-10, 12, 13, 15-17, 20, 24-26; Monticello, 13, 18, 26; Morgan, 11, 14-17, 27, 29; Mt. Nebo, 8, 13; Ogden, 14, 16; Panguitch, 10, 11, 18, 20, 26; Park City, 11, 12, 16, 25; Parowan, 7-11, 14, 19-21, 24-29; Payson, 11-13; Pocatello, Idaho, 11, 12, 14, 15, 27, 29; Pinto, 2, 7-10, 12, 19, 21, 26, 29; Plateau, 13, 16, 17, 26, 31; Randolph, 3, 10-12, 14, 15, 17, 18, 26, 27; Salt Lake City, 11, 12, 14, 24, 26, 27, 29, 30; St. George, 2; Snowville, 12, 14, 15; Tropic, 1-5, 7-13; 15-18, 20, 22-31; Utah Lake Pumping Station, 8, 11-17, 23, 25-27; Woodruff, 8, 10-16, 26, 27.

OBSERVERS' REMARKS.

Black Rock.—The month was favorable for plant growth, though the temperature fell almost to freezing on the 22nd.—Willard Burbank.

Hyrum.—Five cloudburts occurred within a radius of five miles from here; handling hay was rendered difficult owing to frequent rains; the second crop of lucerne was killed on the 20th and 21st by frost.—A. M. Israelson.

Castle Rock.—Heavy rains occurred here on the 17th, causing floods which did great damage to hay, sweeping it off the fields in some instances; uncut hay was overflowed badly.—David Moore.

Deseret.—The low temperature on the 21st and 22nd destroyed most of the second crop of lucerne seed.—S. W. Western.

Emery.—The showers on the 26th and 27th occurred in scattered localities in this region only, but caused considerable delay in the work of harvesting.—H. O. Wickman.

Escalante.—More rain than for 15 years.—W. G. Bleak.

Frisco.—The range has been greatly improved during the month by the frequent rains; several cloudbursts occurred in the north end of the Wah Wah valley.—S. N. Slaughter.

Garrison.—The stormiest August for a number of years; floods were frequent, but ranges were greatly benefited.—E. M. Smith.

Government Creek.—A very favorable month; crops and stock have done fairly well.—Walter James.

Heber.—A very good month for growing crops.—John Crook.

Huntsville.—Fine weather prevailed during August, except for the destructive frost which occurred on the 20th and 21st; potatoes, lucerne and unripe grain suffered considerably.—Lars Petersen.

Indianola.—Potatoes and lucerne were damaged by the frost of the 22nd.—R. H. Spencer.

Kanab.—Very remarkable weather; more rainy and cloudy days than we have ever known here in August.—E. M. Ford.

Marysville.—Irrigation water held out well; the second crop of lucerne was somewhat damaged by rain; corn, lucerne seed, potatoes, beans and squashes on lowlands were injured by frost.—Geo. T. Henry.

Meadowville.—Frost injured potatoes, spring wheat, lucerne and some oats; lucerne was killed to the ground.—J. S. Moffatt.

Morgan.—All tender vegetation suffered from the effects of the early frost, even wheat was badly frozen in the lowlands.—T. R. G. Welch.

Mt. Nebo.—Farmers are thrashing, and returns are good.—D. C. Walkey.

Pinto.—A fine month for growing crops; the handling of hay and grain was hindered by rains; most of this work was done, however.—J. H. Harrison.

Randolph.—All crops were hurt by the frost on the night of the 20-21st.—William Rex.

Tropic.—Rains were very beneficial to all crops; the range was in fine condition.—Edw. P. Bolton.

CROP CONDITIONS.

The inclemency of the weather during the month impeded all farm work considerably. Harvesting proceeded under great difficulties, but was pushed as rapidly as circumstances would allow, and by the close of the month fall grain was practically all thrashed, with spring grain nearly all cut and thrashing under rapid headway. Yields were generally above the average, especially arid land grain, the quantity and quality of which were above all expectations. Corn made satisfactory advancement, was silking and tasseling and furnishing large quantities of roasting ears to the local markets; the crop was in thriving condition and promised well. Lucerne seed, tomatoes, potatoes and all other vegetables suffered severely from the frosts of the 21st-22nd; many potato vines were killed, but the chief damage appears to have resulted to the tomato crop, which unfortunately at the time happened to be at a critical stage of its growth. At the close of the month the canning of the last-named crop was proceeding as fast as the vegetable was ripe enough to pick. The third crop of lucerne was maturing and being gathered, though the work was hampered by the prevailing wet weather, particularly in the southern portion of the section. This staple was making a good growth and promised large yields. Beets were maturing rapidly and were in splendid condition. All indications pointed to a very good crop, both in quality and quantity. Fruit was generally good and plentiful, especially apples. The precipitation during the month, though delaying farm work considera-

bly and damaging hay in stack to some extent, was nevertheless of great benefit to all plant growth. The ranges were revived, and at the close of the month were in prime condition and affording ample sustenance to stock, which was thriving.

GREAT SALT LAKE.

The stage of the water on August 1st was 1.0 foot; on August 15th, 0.6 foot; and on September 1st, 0.4 foot above the zero of the gage.

Comparative Temperature and Precipitation Data for August During the Past Thirteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	70.6	113	23	0.27
1893	68.1	112	25	0.23
1894	69.5	107	25	0.81
1895	70.6	110	29	0.35
1896	69.7	107	33	1.04
1897	69.4	111	35	0.40
1898	73.5	110	35	0.60
1899	65.7	102	24	0.96
1900	68.5	109	26	0.34
1901	72.3	111	31	1.63
1902	69.4	110	23	0.51
1903	71.8	110	27	0.38
1904	69.4	104	22	1.06

CORRECTIONS TO JUNE REPORT.

Page 5: Fillmore—Lowest temperature recorded 38° on the 26th, should be 33° on the 25th. Frisco—Lowest temperature recorded 41° on the 17th, should be 40° on the 4th. Parowan—Mean temperature recorded 62.6°, should be 63.0°. Wellington—Total precipitation should be 1.16 inches.

Page 3: Grand Junction, Colo.—The percentage of sunshine should be 70 per cent.

MAY REPORT.

Pocatello, Idaho—Mean minimum temperature should be 44.5°; mean monthly temperature should be 55.6°; departure from normal should be +1.3; mean relative humidity should be 51 per cent.

LATE JULY REPORT.

Deseret: Mean temperature, 70.2°; departure from the normal, —1.8°; highest temperature, 99° on the 20th; lowest temperature 42° on the 4th; greatest daily range, 51°; total precipitation, trace; departure from the normal, —.12 inch; greatest precipitation in any 24 consecutive hours, trace on the 6th, 23rd, 27th and 28th; days with .01 inch or more of precipitation none; clear days, 20; partly cloudy, 5; and cloudy, 6; prevailing direction of the wind, south.

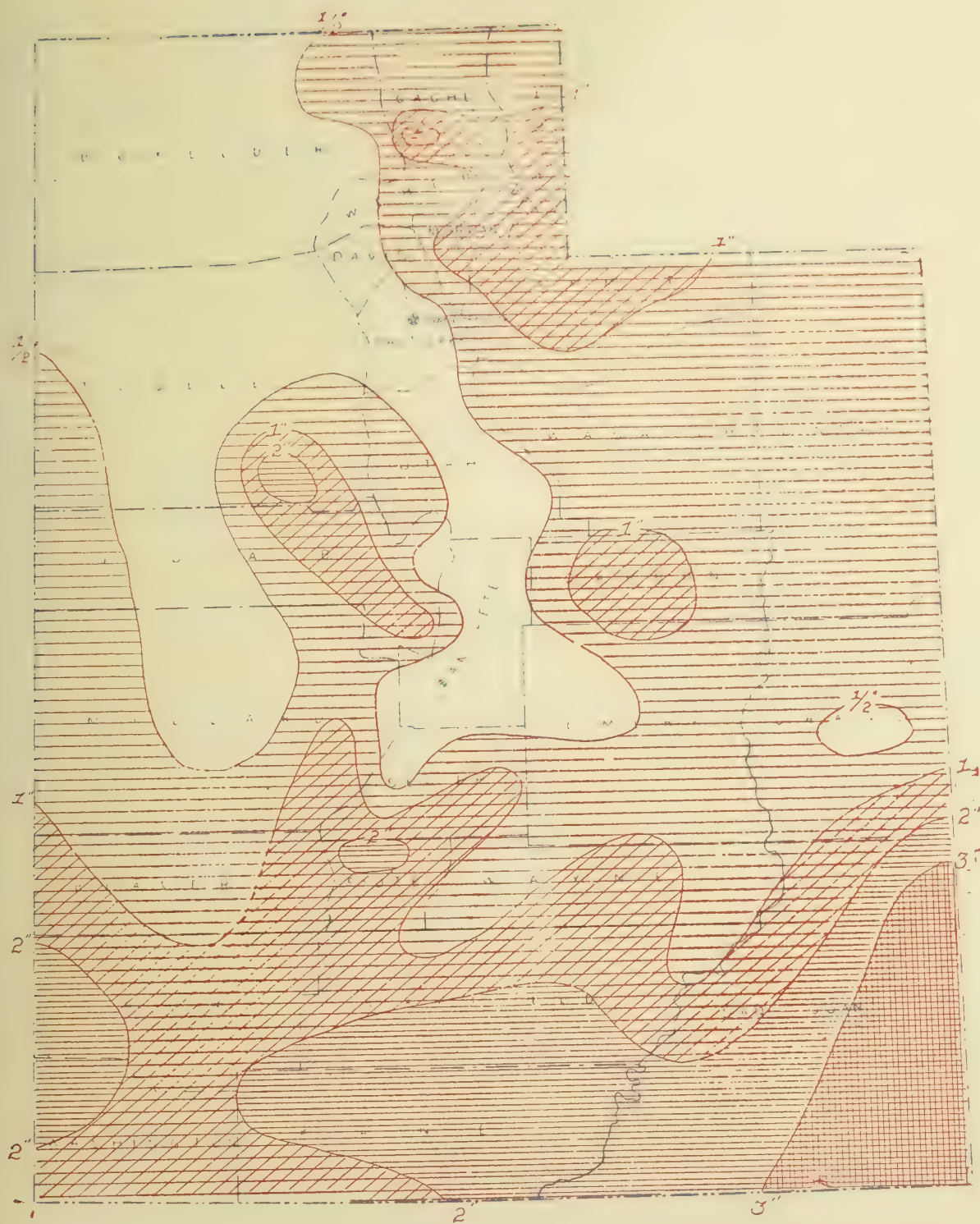
PERSONAL.

Through the kindness of the representatives of the State of Utah in Congress, we have been enabled to furnish all our voluntary observers and crop correspondents with a copy of the Year Book of the U. S. Department of Agriculture for the year of 1903, the quota allowed the Bureau this year being insufficient to supply the demand.

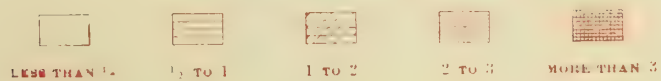
CLIMATOLOGICAL DATA FOR UTAH, AUGUST, 1904.

Sections and stations	Counties	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest.	Date.	Lowest.	Date.	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall unmelting	Days with .01 inch or more.	Number clear days	Number partly cloudy days			Number cloudy days
NORTHERN.																				
Blacksmith's Fork	Cache										2.87		1.70		10	22	6	3		A. M. Isrnelson.
Blue Creek	Box Elder	1,387	20								0.61	+0.27	0.30		5	16	0	15	w.	Agent So. Pacific Co.
Castle Rock	Summit										2.52		1.20		10	14	0	17	h.	David Moore.
Corrairie	Box Elder	4,240	34	77.7	+3.3	102	6	43	21	37	0.46	+0.04	0.26		2	22	4	5	s.	W. E. Johnson.
Evansville, Wyo	Uinta	6,959	8	60.0	-1.1	87	9	27	21	48	1.91	+1.19	0.63		9	20	9	2	w.	Frank Tucker.
Farmington	Davis	1,267	4	70.2		93	30	31	21	50	0.58	+0.16	0.51		4	19	9	3	se.	Charles Boylin.
Fl. Duchesne	Utah	5,000	16	70.3	+0.8	95	33	21	48	0.66	-0.02	0.25		6	16	6	9	se.	Ferdinand Rohricht.	
Heber	Wasatch	5,666	11	64.8	+0.1	92	6	25	22	57	0.88	+0.09	0.62		6	19	8	4	s.	John Crook.
Header	Summit	5,301	5	64.9	+1.1	93	6	25	22	60	1.39	+0.67	0.60		9	15	12	4	w.	William Brewer.
Huntsville	Weber	5,100	9								0.67	+0.14	0.37		4	18	11	2	w.	Lars Peterson.
Kelton	Box Elder	4,430	26	70.8	-4.5	99	5	31	22	46	0.00	-0.36	0.40		0	19	11	1	s.	Agent So. Pacific Co.
Logan	Cache	4,507	13								0.55	+0.16	0.25		3	23	6	2	w.	James Dryden.
Monticello	Rich	6,200	5	63.4		88	9	32	22	47	0.91	+0.29	0.40		7					J. S. Moffat.
Millville	Cache	4,848	9								0.91	+0.29	0.40		7					Fred Yeates.
Morgan T. L.	Morgan		1	64.2		91	6	29	21	53	1.27		0.47		5	20	8	2	w.	T. R. G. Welch.
Oakley, Idaho	Cassia	4,191	11								0.55		0.33		4	22	7	2	nw.	Thomas Adams.
Ogden No. 1	Weber	4,310	3	72.4		93	6	43	21	37	0.55		0.25		4	20	3	8		Enoch Farr.
Ogden No. 2	Weber	4,310	34	78.2	+1.4	97	6	47	22	57	0.64	+0.18	0.25		4	20	3	8		W. H. Chivers.
Park City	Summit	6,846	7	60.9	-2.6	82	9	34	21	31	1.99	+1.51	0.71		10					J. H. Hance.
Pocatello, Idaho	Bannock	4,488	4	70.8	+1.2	93	6	42	22	40	0.66	+0.24	0.38		6	14	16	1	e.	Weather Bureau.
Promontory	Box Elder	4,913	34	69.4	-5.7	98	7	43	22		0.00	-0.35	0.00		0	22	0	9	n.	Agent So. Pacific Co.
Rancho	Rich										1.01		0.21		10	19	7	5	sw.	Wm. Rex.
Saltair Beach	Salt Lake			75.1		93	5	50	22	35	0.18		0.05		6					Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	30	74.2	-0.4	91	9	46	22	40	0.28	-0.44	0.10		6	13	15	3	se.	Section Center.
Snowville	Box Elder	4,366	14	67.6	-0.4	98	4	33	22	54	0.17	-0.07	0.06		3	19	11	1	s.	Joseph Robbins.
Terrace	Box Elder	4,550	34	70.6	-0.9	100	6	30	22	49	0.20	+0.05	0.10		2	9	19	3	nw.	Agent So. Pacific Co.
Tooele	Tooele	4,900	8	71.4	-2.4	93	9	42	22	41	0.55	+0.03	0.15		6	7	18	6	s.	L. J. Elkington.
Weston, Idaho	Oneida	4,466	6	67.1	-0.1	95	6	31	22	52	0.70	-0.66	0.35		7	16	9	6	s-sw	William Chatterton.
Woodruff - T 5	Rich	6,500	7	61.9	+1.6	92	8	23	21	57	1.91	+1.62	0.58		8	8	6	9	w.	Thomas Ashton.
Averages				69.3	-1.4						0.87	-0.04			5	18	8	5	s & w	
MIDDLE.																				
Black Rock	Millard	5,802	4	67.9		90	5	34	22	50	0.56		0.26		4	16	14	1	s.	Willard Burbank.
Callao	Juab		2	69.4		91	6	32	22	58	0.54		0.16		5	8	12	11		E. E. Edwards.
Castle Dale - T 1	Emery	5,500	5	64.4	-4.0	90	9	30	21	52	0.35	-0.39	0.10		6	9	21	0		James Jeffs.
Cisco	Grand	4,385	12	78.5	+1.1	103	7	52	22	40	0.18	-0.27	0.15		2	16	13	2	w.	H. T. Matthews.
Deseret	Millard	4,541	10	70.1	-1.3	98	6	29	22	61	0.20	-0.25	0.12		2	14	10	7	s.	S. W. Western.
Emery	Emery	6,260	4	60.2		83	6	34	24	35	0.93		0.42		3	0	5	26	sw.	H. C. Wickman.
Fillmore	Millard	5,100	14	75.0	+0.5	103	6	41	22	53	1.13	+0.38	0.65		4					J. J. Starley.
Garrison - T 3	Millard		1	67.2		98	6	38	22	39	0.95		0.20		8	9	11	6	s.	E. M. Smith.
Gov'm't Creek	Tooele	5,277	4	71.9		91	6	39	21	37	2.02		1.28		5	16	11	4	s.	Walter James.
Grand Junction, Col.	Me-a	4,068	13	75.2	-0.4	95	6	51	22	36	1.00	-0.15	0.31		11	7	20	4	se.	Weather Bureau.
Green River	Emery	1,086	7	76.2	-0.9	102	7	39	19	51	0.72	0	0.37		6	11	19	1		J. T. Farrer, Jr.
Ibama	Tooele		1	66.2		91	6	26	22	61	0.91		0.29		4	7	14	10		Owen Sheridan.
Indianola	San Pete										0.03		0.02		2					R. H. Spencer.
Levan	Juab	5,010	14	69.6	-0.7	92	6	38	22	44	1.24	+0.55	0.36		6	16	12	3	sw.	William Brown.
Manti - T 3	San Pete	5,575	10	68.7	-1.8	93	7	35	21	41	0.37	0.11	0.18		3	0	28	3		W. M. Harmon.
Mt. Nebo	Utah	4,650	3	72.9		95	6	40	22	40	0.54		0.25		8	16	15	0	n.	D. C. Walkey.
Mt. Pleasant	San Pete	5,859	12	70.4	-1.4	95	6	41	21	44	0.44	-0.21	0.23		2	9	22	0		Web Greene.
Nephi	Juab										0.07		0.03		3					H. D. Allred.
Payson	Utah	4,637									T.		T.		0	10	18	3	sw.	W. C. Wightman, Jr.
Provo	Utah	4,532	12	70.4	-0.3	98	6	34	22	54	0.45	+0.17	0.26		5	12	19	0	nw.	Caleb Tanner.
Richfield - T 7	Sevier	5,323	14	67.5	+0.1	92	6	34	21	52	0.27	-0.19	0.25		4		20	3		J. M. Lauritzen.
Scipio	Millard	5,260	9	68.4	-1.0	91	8	29	21	57	0.51	-0.35	0.23		6	12	7	12	sw.	Thomas Memmott.
Soldier Summit - T 6	Utah	7,474	12	56.4	-4.2	90	7	22	22	60	1.15	+0.55	0.30		6	10	15			Agent Rio Grande R. R.
Thistle	Utah	5,675	12	71.2	+1.9	102	6	30	21	54	0.46	-0.63	0.15		6	25	0	6		J. H. Mitchell.
Wellington	Carbon	5,546	5	68.9	+0.3	98	6	31	20	54	1.12	+0.40	0.46		5					E. E. Branch.
Averages				69.1	-0.6						0.64				4	12	14	5	s-sw	
SOUTHERN.																				
Aneth	San Juan	4,800	4																	H. R. Antes.
Beaver - T 5	Beaver			66.6		88	6	36	22	48	1.13		0.20		9					A. B. Anderson.
Coyote	Garfield		3	55.0		78	6	31	23	37	0.95		0.35		4	6	3	22		H. J. McCullough.
Escalante	Garfield	5,700	4	69.0		90	7	47	31	36	2.58		0.65		13	1	10	20	w.	W. G. Bleak.
Experiment Farm	Washington			77.8		104	6	46	31	47						4	5	22		Joseph T. Atkin.
Frisco	Beaver	7,318	10	71.6	-0.1	96	6	47	22	35	0.83	-0.42	0.24		9	8	15	8	sw.	S. N. Slaughter.
Giles	Wayne	4,000	9	72.6	-2.2	98	5	42	22	43	1.28	+0.67	0.60		10	20	9	2		J. C. White.
Grover (near)	Wayne	5,800	8																	John C. Jacobs, Jr.
Hite	Garfield	3,000	5	82.0	-1.1	104	14	60	22	39	1.66	+0.72	0.60		4	6	21	4		F. W. Gibbons.
Kanab - T 11	Kane	4,925	4	68.2		92	5	44	28	44	1.40		0.50		5	6		14		E. M. Ford.
La Sal	San Juan	7,000	4	65.4		84	5	44	21	29	2.95		0.41		14	6	23	2		Mrs. G. W. Carpenter.
Loa	Wayne	7,000	12																	Michael Hansen.
Lund	Iron	5,092	4																	B. R. Transeau.
Marysville (near)	Piute	6,180	5	65.6		89	5	34	22	50	2.10		0.78		19	4	5	22	sw.	G. T. Henry.
Minersville	Beaver	5,070	7																	R. W. Dotson.
Moab	Grand	4,300	15	77.0	+2.0	101	6	41	22	50	0.97	+0.31	0.31		6	1	23	7		Henry Crouse.
Modena	Iron	5,479	4	70.6	+0.9	91	6	41	22	38	2.52	+1.29	0.72		11					

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION FOR UTAH, AUGUST, 1904.

Sections and stations.	Day of month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine																																	
Blacksmith's Fork											.08	.09		.20	T.	T.	.31						.20	.08	.03	1.70	.10				.08		
Blue Creek				.01												.05	.30						.10										
Castle Rock				T.							.05	.28		.20	.02	.02	1.20						.06			.36	.26		.05				
Corinne																.20							.26										
Evansville, Wyo											.14	.63		.08	.20	.03	.31						.03				.10	.41					
Farmington											.02					.51	.02					T.	T.		T.	.10	.03		T.				
Pt. Duchesne											.03	T.							.01				T.	.02	.25	T.		.25			.10		
Heber											.62					T.	.08		.02						T.	T.		.16					
Honefer										.40	.08					.02	.07	.08					.02		.10	.60	.02						
Huntsville										.09							.14						.37			.07	T.						
Kelton																																	
Logan																																	
Mea lowville																.10	T.	.25															
Millville												.09		.40	.03		.15						.16	.02				.20	T.		.06		
Morgan											.18			T.			.47							.10				.42	T.	.10			
Oakley, Idaho																.09	.04	.09															
Ogden No. 1											.02					.22	.15						.33										
Ogden No. 2																		.01															
Park City				T.							.14	.37	.71	.01		.15		.11	.0														
Pocatello, Idaho											T.	.38	T.	T.			.01						.07					.38	.04				
Promontory																												.12	.03	.06			
Randolph										.18	.04	.02				.18	.08		.21	.10				.03			.09	.08					
Saltair Beach																.02	.03						.05			.02	.04						
Salt Lake City											.10		T.	T.		.02	.02		T.				.02		.02	.10	.02	T.					
Snowville										.06															.06			.05					
Terrace																.10		T.	.10									.05					
Tooele										.15	.03	.04				.13											.05	.15					
Wood										.01	.05		.35	.08													.05	T.					
Weston, Idaho										T.	.01	.58	.08		.35	.08	.28		.45					.13				.04	.04				
Woodruff																								.03		.15	.29						
MIDDLE.																																	
Black Rock										T.	T.		.05			.26	T.									.10	.15	T.					
Callao											.16						.13											.07					
Castle Dale											T.	.02	.05		.10		T.	.05		.05	.13									.02			
Cisco																		T.	T.	T.	.03												
Deseret																											.12	.08					
Emery																																	
Fillmore											T.	.21															.12	.08					
Garrison											T.	.20	.16	.05		.10	T.	T.	.10	.08							.30	.42		T.			
Government Creek																																	
Grand Junction, Colo.											T.	.20	.07			.20	.20	.29	1.28		T.												
Green River																																	
Ibapah																																	
Indianola																																	
Levan																																	
Manti																																	
Mount Nebo																																	
Mount Pleasant																																	
Nephi																																	
Provo																																	
Richfield																																	
Scipio																																	
Soldier Summit																																	
Thistle																																	
Utah Lake Pumping Station																																	
Wellington																																	
SOUTHERN.																																	
Aneth																																	
Beaver																																	
Coyote																																	
Escalante																																	
Frisco																																	
Giles																																	
Grover (near)																																	
Hite																																	
Kanab																																	
La Sal																																	
Loa																																	
Lund																																	
Marysville (near)																																	
Miner-ville																																	
Moab																																	
Modena																																	
Monticello																																	
Panguitch																																	

551.0
UAT

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

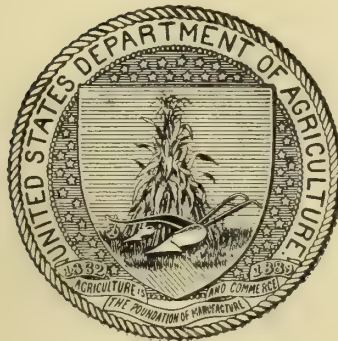
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
Oct. 20, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

September, 1904.

No. 11.

WEATHER.

Exceptionally fine weather prevailed during the month, which is evidenced by the abnormally high temperatures, and by the decided shortage in precipitation. Near the close of the first decade the highest temperatures obtained during an extended period of clear skies. About the beginning of the last decade, however, foul weather set in, and produced almost the entire precipitation for the month. During, and following this rainy period, temperatures took a decided drop, and killing frost was produced widely over the section.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 61.1°, or 0.6° above the normal. The highest local monthly mean was 74.1° at Hite; the lowest was 50.0° at Coyoto. The highest temperature recorded was 102° at Experiment Farm, Rockville and St. George on the 7th; the lowest was 20° at Woodruff on the 26th and 28th, Coyoto on the 27th and Loa on the 28th, giving an absolute range for the section of 82°. The greatest daily range for any station was 62° at Thistle on the 13th. The highest temperatures of the month were generally recorded from the 6th to the 8th; and the lowest from the 26th to the 29th.

PRECIPITATION.

The average precipitation, determined from the reports of 60 stations, was 0.40 inch, or 0.38 inch below the normal. Over the northern portion the rainfall showed the greatest deficiency, being 0.56 inch below the normal; over the middle portion the deficiency was 0.32 inch, while over the southern portion the deficiency was 0.25 inch. The greatest monthly amount was 2.02 inches at Modena, while only a trace fell at Wellington and Tropic. The greatest precipitation in any 24 consecutive hours was 1.78 inches at Modena on the 12th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 3,311; at Modena, 7,815; at Grand Junction, Colo., 3,973; and at Pocatello, Idaho, 5,095. The maximum velocity at Salt Lake City was 29 miles per hour from the south on the 24th; at Modena, 48 miles from the west on the 22nd; at Grand Junction, Colo., 24 miles from the northwest on the 1st; and at Pocatello, Idaho, 22 miles from the southeast on the 25th.

The average number of clear days for the section during the month was 17; partly cloudy days, 8; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 71 per cent; Modena 75 per cent; Grand Junction, Colo., 75 per cent; and Pocatello, Idaho, 85 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 34 per cent, the lowest observed reading being 10 per cent

on the 2nd; at Modena, 48 per cent, the lowest observed reading being 9 per cent on the 6th; at Grand Junction, Colo., 42 per cent, the lowest observed reading being 14 per cent on the 8th and 9th; and at Pocatello, Idaho, 38 per cent, the lowest observed reading being 9 per cent on the 12th.

There was an average of 3 days with .01 inch or more precipitation for the section; 2 over the northern; 2 over the middle, and 3 over the southern portion.

MISCELLANEOUS PHENOMENA.

Stations and dates of occurrence.

Sleet. Payson, 27.

Fog, dense. Modena, 31.

Halo, lunar. Mount Nebo, 24.

Corona, lunar. Marysville, 21, 23.

Rainbow. Henefer, 15; Salt Lake City, 27.

Frosts, light. Mount Nebo, 29; Randolph, 2, 3, 16, 17, 23-25; Salt Lake City, 28, 29.

Hail. Cisco, 22; Government Creek, 27; La Sal, 23; Marysville, 15, 20; Modena, 12; Mount Nebo, 27; Panguitch, 12; Payson, 27; Pine Valley, 12; St. George, 29.

Frosts, killing. Black Rock, 26, 27; Coyoto, 3, 27; Emery, 27, 28; Garrison, 27, 29; Heber, 26, 28; Henefer, 4, 29; Marysville, 27; Moab, 28; Mount Nebo, 28; Morgan, 25-27; Panguitch, 13, 25; Pine Valley, 26; Pinto, 22.

High winds. Castle Rock, 19, 23; Fort Duchesne, 9; Garrison, 22, 23; Government Creek, 22-26; Henefer, 9-11, 20-22; Levan, 22; Marysville, 22-26; Meadowville, 22, 27; Mount Nebo, 22, 23; Ogden, 25; Salt Lake City, 24; Scipio, 20; Utah Lake Pumping Station, 21-26.

Thunderstorms. Black Rock, 15; Castle Rock, 17, 26; Farmington, 18; Giles, 13, 15, 22, 25, 29; Government Creek, 15, 16, 22; Henefer, 15, 16, 22, 26, 27; Huntsville, 22, 25; Levan, 15, 16, 19, 27; Marysville, 12, 14, 15, 20; Meadowville, 20, 22; Moab, 14, 15, 16; Modena, 8, 11, 12; Morgan, 21, 22, 26; Nephi, 22, 27; Payson, 16, 27; Pine Valley, 12; Pinto, 8-11, 15; Plateau, 20; Salt Lake City, 17, 18, 22, 30; St. George, 12, 25; Scipio, 15; Thistle, 9, 25; Tropic, 12, 14-16; Utah Lake Pumping Station, 16, 17, 27.

OBSERVERS' REMARKS.

Black Rock.—Fore part of month clear and warm; latter part more or less stormy and colder; no frosts occurred until the night of the 26th; one also occurred on the succeeding night that killed some tender plants. Willard Burbank.

Castle Rock.—A very cool month; frosts nearly every night. David Moore.

Emery.—The month was favorable for harvesting until the 29th, when a steady rain set in from the northeast, and all thrashing was delayed.—H. C. Wickman.

Frisco.—A very warm and dry month, excepting the last week. The light showers have improved the range.—S. N. Slaughter.

Government Creek.—A very fine month; all crops have matured well and were gathered in good condition; the ground is too dry for much fall plowing.—Walter James.

Heber.—The first snow fell on the hills on the 25th; the month has been very pleasant; killing frosts occurred during the last week of the month; it was dry, and the rainfall was below average.—John Crook.

Henefer.—A fine month for harvesting and thrashing; all crops gathered except potatoes.—Wm. Brewer.

Huntsville.—The month was very dry, but the weather was fine and favorable for haying and thrashing.—Lars Petersen.

Levan.—A dry month, but favorable for field work.—Wm. Brown.

Marysville.—Hay and grain all harvested; crops average; lucerne seed turning out poorly; farmers busy thrashing; peaches

and plums ripening very slowly; irrigation water plentiful. Geo. T. Henry.

Meadowville.—A very fine month; thrashing completed in this vicinity; fall plowing has begun.—J. S. Moffat.

Moab.—The first killing frost of the season occurred on the morning of the 28th, killing tomatoes, squash, melons, etc.—Henry Crouse.

Mount Nebo.—The month was remarkable for the great number of clear days that occurred, most of which were either cloudless or nearly so; the weather during the entire month was pleasant, with one heavy and one light frost.—D. C. Walkey.

Morgan.—Unusually dry for September, with marked variability of temperature. Very favorable for gathering second crop of alfalfa and for thrashing; fruit crops being rapidly marketed.

T. R. G. Welch.

Pine Valley.—The killing frost of the 26th was the first frost of the season.—Wm. Gardner.

Pinto.—A very pleasant month; thrashing begun; tender vegetation frosted, but not killed down.—J. H. Harrison.

Ranch.—A very fine month; grain is all cut and the yield is good; the frosts so far have not damaged grain this fall, but the light frost of last week damaged tender plants.—J. W. Seaman.

Tropic.—The month has been very favorable for all agricultural purposes.—E. P. Bolton.

Utah Lake Pumping Station.—The tops of the mountains east of here were covered with snow on the 25th.—W. A. Knight.

CROPS.

The fair, warm weather during the greater portion of the month permitted the gathering of practically all crops, except beets and potatoes. Fall seeding was pushed, and the close of September found all farm work quite well advanced, especially the sowing of small grain. The copious showers during the last decade proved helpful to the recently sown grain, though the cold weather following the rains delayed germination. Threshing was generally completed. The yields of grain from arid farms surpassed all estimates in every respect. The second crop of lucerne seed was light. Potatoes generally escaped serious injury from frost, and were maturing with good yields indicated. Fruit was abundant, especially winter apples, which were of a splendid quality. The gathering of beets began late in the month, and satisfactory crops were reported from all sections. Sugar making had begun towards the close of the month. The range was very flourishing, and promised a vast quantity of feed for the winter months. Sheep and cattle are approaching winter in splendid condition. The crop season for 1904 is generally considered the best in the history of the State.

GREAT SALT LAKE.

The stage of the water on September 1st was 0.4 of a foot above the zero of the gage; on September 15th 0.3 of a foot above, and on October 1st it was exactly at the zero.

CORRECTIONS TO THE AUGUST REPORT.

Garrison: The mean minimum temperature should 56.0, and the mean temperature should be 69.9.

LATE AUGUST REPORTS.

Aneth: Mean temperature, 77.8; departure, +0.4; highest temperature, 102° on the 28th; lowest, 55° on the 29th; greatest daily range, 45°. Total precipitation, 0.85 inch; departure, +0.17; greatest in 24 hours, 0.23 inch; number of rainy days, 5; clear, 10; partly cloudy, 18; cloudy, 3. Direction of the wind, west.

Loa: Mean temperature, 66.2; departure, +3.1; highest temperature, 94° on the 6th; lowest, 38° on the 22nd; greatest

daily range, 48°. Total precipitation, 1.40 inches; departure +0.13; greatest in 24 hours, 0.30; number of rainy days, 7.

Logan: Mean temperature, 71.4; departure, +0.8; highest temperature, 95° on the 6th; lowest, 41° on the 21st; greatest daily range, 35°. Total precipitation, 0.82 inch; departure +0.34; greatest in 24 hours, 0.34; number of rainy days, 6.

PERSONAL.

A number of our regular Voluntary Observers and Crop Correspondents called at the office during Conference and State Fair week. We will be glad to see any visiting Observers or Correspondents who visit the city at any time.

Comparative Temperature and Precipitation Data for September During the Past Fourteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	60.7	104	28	1.89
1892	64.6	102	20	0.09
1893	58.0	99	12	0.84
1894	57.0	102	13	1.36
1895	60.8	103	9	0.60
1896	61.0	110	16	1.00
1897	62.2	100	25	1.64
1898	61.0	102	18	0.10
1899	65.3	103	22	0.05
1900	57.4	96	10	1.26
1901	59.3	100	11	0.21
1902	60.1	103	10	0.56
1903	58.5	103	16	0.90
1904	61.1	102	20	0.40

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, LEVAN, JUAB CO., UTAH.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890.....	20.2	29.0	35.6	46.6	56.5	62.4	74.9	70.0	61.8	43.7	.....	.....	.....
1891.....	16.2	19.8	34.8	45.1	56.8	60.8	71.7	71.7	58.8	45.2	37.1	21.5	44
1892.....	21.2	34.3	37.4	43.8	53.7	65.9	73.6	69.9	63.6	44.7	33.2	21.0	46
1893.....	21.6	22.0	33.1	42.0	53.7	68.0	71.6	68.3	59.2	47.0	33.6	31.9	46
1894.....	22.8	29.7	37.7	46.4	58.8	62.2	71.9	71.0	58.7	50.0	39.4	26.8	47
1895.....	21.3	20.6	34.4	51.5	57.6	63.5	74.2	76.2	65.9	50.8	32.9	21.2	47
1896.....	30.2	31.7	38.0	44.0	51.8	68.0	70.6	69.4	60.8	49.9	34.8	31.9	48
1897.....	27.0	28.2	31.8	47.0	59.8	63.2	68.6	70.8	61.5	46.8	38.6	21.0	47
1898.....	17.2	30.7	33.2	50.5	52.0	63.4	70.8	71.4	60.1	44.6	33.0	21.2	45
1899.....	27.2	29.3	37.9	47.5	50.6	61.8	72.0	64.4	61.9	45.0	40.1	23.6	46
1900.....	31.9	32.7	43.5	45.8	57.2	69.3	72.4	68.2	57.0	48.7	40.4	29.8	49
1901.....	28.4	33.0	36.1	46.2	59.2	63.1	74.6	71.0	58.0	50.6	40.3	26.4	49
1902.....	25.8	33.6	33.3	47.6	54.8	66.2	68.4	70.1	59.8	49.6	35.5	26.5	47
1903.....	26.0	14.0	35.2	44.8	51.0	64.8	68.8	71.1	57.8	47.8	38.4	24.2	45
1904.....	19.2	32.4	38.0	46.4	53.8	61.0	.....	.....	.....	.....	.....	.....	.....
Mean.....	23.7	27.3	35.9	46.3	55.2	64.2	71.7	70.3	60.4	47.5	36.7	25.2	47

TOTAL PRECIPITATION.

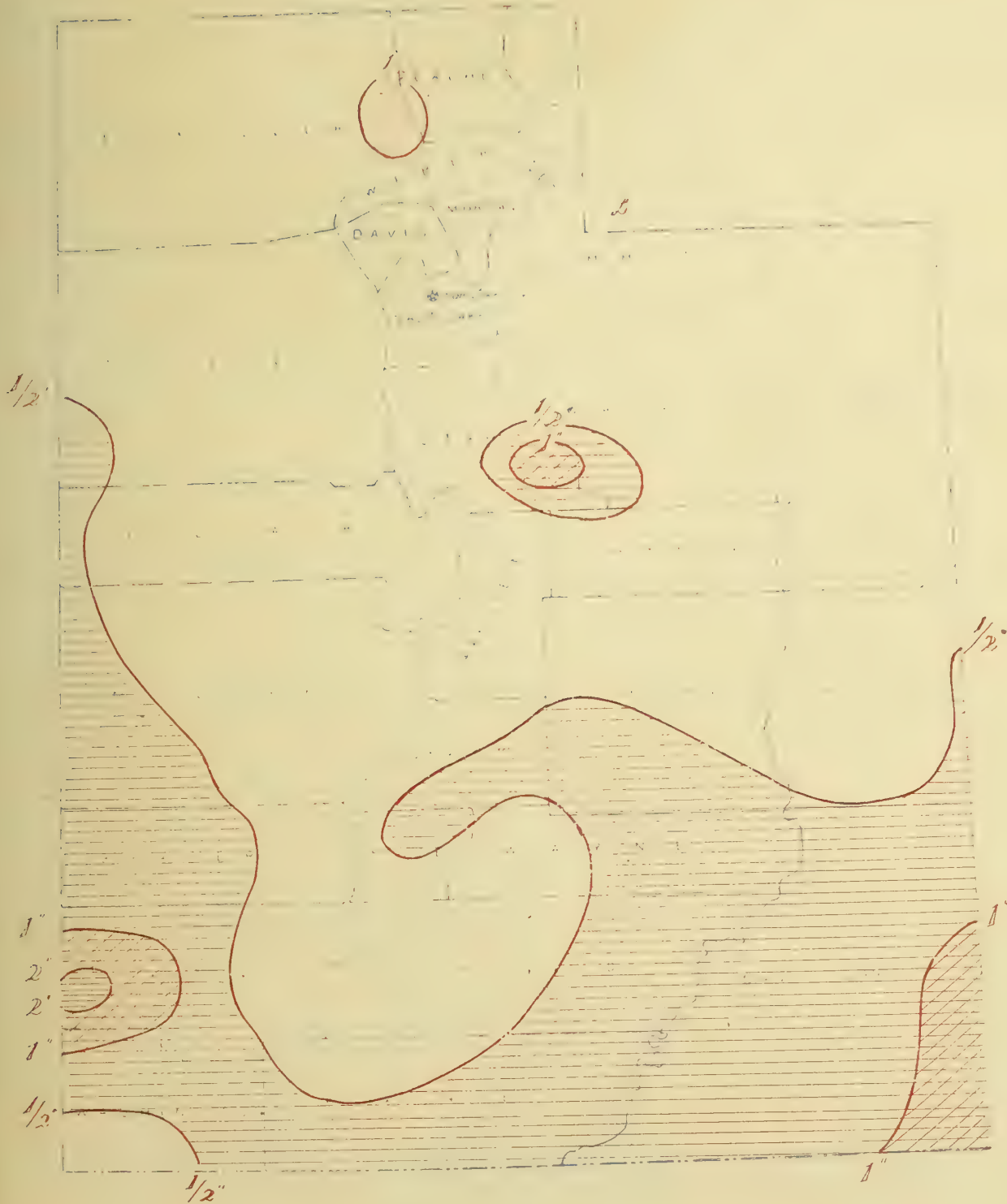
Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1891.....	2.20	1.15	1.45	0.25	0.38	0.10	0.40	0.45	0.28	1.05	1.34	4.20	.....
1892.....	1.73	2.88	1.46	1.38	1.11	1.27	0.32	0.32	3.59	0	0.07	2.80	16
1893.....	1.29	0.25	2.90	1.68	1.85	0.47	0.20	0.02	T	1.80	0.60	2.38	13
1894.....	1.28	2.60	3.42	2.69	1.12	0	0.40	1.68	1.17	0.20	0.96	1.85	17
1895.....	1.70	1.55	1.20	2.30	0.96	1.71	0.95	0.89	2.87	0.85	0	2.75	17
1896.....	1.60	2.20	3.50	5.20	.....	0.28	0.84	1.01	0.91	0.60	1.63	0.95	.....
1897.....	1.16	0.60	1.19	1.23	1.58	0.36	2.26	0.7	0.54	0.50	1.68	0.36	12
1898.....	1.95	1.88	2.22	1.05	0.85	0.41	0.28	0.14	1.84	3.29	1.23	1.65	16
1899.....	0.80	0.25	1.45	1.06	5.87	0.90	1.62	0.73	0	0.99	0.91	1.36	15
1900.....	1.43	2.25	3.90	0.71	1.75	0.95	0.25	1.06	0	2.67	1.09	1.91	16
1901.....	0.87	0.70	0.12	3.70	0.57	0.04	0.03	0.28	1.70	0.69	1.45	0.10	10
1902.....	0.93	2.23	1.58	1.02	1.74	0.29	0.25	1.58	0.18	1.31	0.53	1.40	13
1903.....	0.53	1.11	2.41	2.03	0.16	0.33	0.32	0.20	0.91	1.62	1.98	1.72	12
1904.....	1.61	0.98	1.33	2.03	2.26	0.48	0.47	0.15	0.92	1.56	0.24	0.52	12
Mean.....	1.39	1.52	2.11	1.77	1.51	0.51	0.47	0.69	1.06	1.29	0.67	1.72	15

CLIMATOLOGICAL DATA FOR UTAH, SEPTEMBER, 1904.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches						Sky				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall accumulated	Days with at least one inch of more	Number clear days	Number partly cloudy days	Number cloudy days			
NORTHERN.																					
Alpine	Utah	4,900	8								0.40	-0.38	0.30	0.0							T. B. Whithy.
Blacksmith's Fork	Cache										0.19	-0.38	0.35	0.0							A. M. Leachon.
Castle Rock	Summit										0.06	-0.38	0.35	0.0	3	23	8	2			David Moore.
Cornucopia T4	Box Elder	4,210	34	64.2	+0.1	85	8	37	16	80	0.80	+0.11	0.80	0.0	1	21	6	9	SW.		W. E. Johnson.
Evamston, Wyo	Uinta	9,950	9	53.0	+0.1	85	8	37	16	80	0.80	+0.11	0.80	0.0	1	21	6	9	SW.		Frank Tucker.
Farmington	Davis	1,207	1	60.7		80	38	34	40	47	0.05	-0.09	0.05	0.0	1	21	6	9	SW.		Charles Boylin.
Fl. Duchesne	Uintah	5,000	16	59.0	-0.9	82	8	29	2	84	0.32	-0.02	0.18	0.0	1	10	9	5	VAR.		Ferdinand Rohricht.
Heber	Wasatch	5,600	11	50.6	+1.0	80	37	26	28	55	0.10	-0.91	0.8	0.0	3	22	4	1	NE.		John Crook.
Heender	Summit	5,301	5	50.8	+1.5	90	37	24	29	55	0.06	-1.0	0.04	0.0	2	17	9	3	W.		William Brewer.
Huntsville	Weber	5,000	9								0.10	-0.63	0.07	0.0	2	26	12	2			Lars Peterson.
Kelton	Box Elder	4,230	26	58.1	-3.5	81	31	33	22	19	0.10	-0.63	0.07	0.0	2	26	12	2			Agent So. Pacific Co.
Loda T2	Cache	4,507	13	61.0	+3.2	93	8	35	28	42	0.17	-0.91	0.08	0.0	3	23	5	6	SW.		James Dryden.
Monticello T4	Rich	6,206	5	51.9		80	6	39	11	41	0.40	-0.39	0.20	0.0	3	22	3	5	W.		J. S. Mollat.
Milville	Cache	4,848	9								0.30	-0.09	0.19	0.0	3	22	3	5	W.		Fred Yentus.
Morgan T2	Morgan		1	57.1		87	7	47	27	50	0.02	-0.02	0.0	0.0	4	20	5	3	SW.		T. R. G. Welch.
Oakley, Idaho	Cassia	4,191	11	61.2	+2.4	94	7	37	29	46	0.90	+0.11	0.80	0.0	2	20	5	3	SW.		Thomas Adams.
Ogden No. 1	Weber	4,310	3	61.3		85	37	40	27	29	0.09	-0.09	0.0	0.0	1	10	5	6	HW.		Enoch Farr.
Ogden No. 2 T4	Weber	4,310	4	68.6	+3.0	90	8	33	28		0.14	-0.54	0.14	0.0	1	20	3	7	W.		W. H. Chowers.
Park City	Summit	6,846	34																		J. H. Hance.
Pocahontas, Idaho	Bannock	4,488	4	62.2	+1.7	92	8	37	20	44	0.47	-0.19	0.32	0.0	3	18	10	2	E.		Weather Bureau.
Promontory T4	Box Elder	4,913	34	52.6	-10.6	83	6	30	28												Agent So. Pacific Co.
Ranolph	Rich										0.19	-0.12	0.0	0.0	2	22	8	8	W.		Wm. Rex.
Saltair Beach	Salt Lake		1	60.5		88	11	44	28	31	0.33	-0.27	0.0	0.0	3	26	2	2	SW.		Francis W. Bailey.
Salt Lake City	Salt Lake	4,306	30	66.4	+2.2	92	8	38	28	51	0.12	-0.81	0.09	0.0	2	16	8	6	SE.		Section Center.
Snowville	Box Elder	4,306	11	59.1	+0.8	92	16	30	12	57	0.28	-0.24	0.20	0.0	2	20	8	2	S.		Joseph Robbins.
Terrace	Box Elder	4,550	34																		Agent So. Pacific Co.
Tooele	Tooele	4,000	8	65.6	+1.9	87	9	37	28	28	0.17	-0.30	0.12	0.0	2	20	7	3	S.		I. J. Elkington.
Weston, Idaho	Oneida	4,406	6	59.6	+1.9	92	7	37	11	54	0.56	+0.18	0.42	0.0	5	19	5	6	SW.		William Chatterton.
Woodruff	Rich	6,500	7	55.0	+3.9	90	8	20	*26	61											Thomas Ashton.
Averages				60.6	0.6						0.23	-0.56			2	20	5	5	W.		
MIDDLE.																					
Black Rock	Millard	5,802	1	58.1		85	8	28	27	46	0.30		0.17	0.0	3	11	16	3	S.		Willard Burbank.
Castro	Juab		2	62.3		97	6	32	3	57	0.36		0.20	0.0	2	10	9	11			E. E. Edwards.
Castle Dale	Emery	5,506	5	57.4	-1.7	86	6	25	*20	39	0.30	-0.34	0.25	0.0	2	15	15	0			James Jeffs.
Cisco	Grand	4,385	12	60.1	+2.1	95	6	31	28	47	0.20	-0.47	0.10	0.0	2	20	9	1	W.		H. T. Matthews.
Dorset	Millard	4,541	10																		S. W. Western.
Emery	Emery	4,266	4	52.1		71	*11	28	29	33	0.70		0.76	0.0	1	11	10	9	SW.		H. C. Wickman.
Fillmore	Millard	5,100	14	67.1	+2.1	100	8	32	27	50	0.10	-0.79	0.06	0.0	2	11	10	9	SW.		J. J. Starley.
Garrison T1	Millard		1	62.2		91	8	30	27	44	0.55		0.22	0.0	3	18	9	2	S.		E. M. Smith.
Governor's Creek	Tooele	5,277	4	62.4		91	8	31	19	50	0.22		0.08	0.0	3	19	4	7	S.		Walter James.
Grand Junction, Col.	Mesa	4,068	13	67.8	+0.6	92	7	37	28	35	0.05	-0.28	0.26	0.0	5	18	0	3	SE.		Weather Bureau.
Green River	Emery	4,086	7																		J. T. Farrer, Jr.
Idaiah	Tooele		1	56.6		90	8	25	26	56	0.58		0.33	0.0	2	13	1	16			Owen Sheridan.
Idaiahola	San Pete										0.25		0.25	0.0	1						R. H. Spencer.
Lexa	Juab	5,010	14	61.0	+0.6	86	8	36	*26	37	0.27	-0.79	0.18	0.0	2	20	5	5	SW.		William Brown.
Manti T1	San Pete	5,575	10	59.6	-1.9	90	*8	34	*26	46	0.48	-0.35	0.24	0.0	4	0	19	2			W. M. Harmon.
Mt. Nebo	Utah	4,650	3	61.2		93	5	34	28	44	0.16		0.13	0.0	3	23	6	1	W.		D. C. Walkley.
Mt. Pleasant	San Pete	5,859	12	62.2	+0.2	90	7	33	20	45	0.36	-0.53	0.29	0.0	2	16	14	0			Web Greene.
Nephi	Juab										0.18		0.10	0.0	3						H. D. Allred.
Paysm	Utah	4,637																			W. C. Wightman, Jr.
Provo T1	Utah	4,532	12	62.1	+2.3	91	8	34	*26	52	0.04	-0.34	0.02	0.0	2	15	10	5	HW.		Caleb Tanner.
Richfield T18	Sevier	5,332	14	61.1	+2.9	97	7	28	26	39	0.15	-0.47	0.05	0.0	1	14	11	5			J. M. Lauritzen.
Sedona	Millard	5,200	9	60.2	+0.5	92	7	28	*26	55	0.30	-0.10	0.11	0.0	4	17	7	6	SW.		Thomas Menmott.
Solier Summit	Utah	7,174	12	51.4	+0.4	84	5	25	27	50	0.02	+0.01	0.20	0.0	6	16	9	5	SW.		Agent Rio Grande R. R.
Thistle	Utah	5,175	12	63.8	+6.2	99	*3	20	28	62	1.00	+0.00	1.10	0.0	3	18	10	2			J. H. Mitchell.
Wellington T3	Carbon	5,540	5	60.4		93	6	28	26	55											E. E. Branch.
Averages				60.7	+1.7						0.38	-0.32			2	16	9	5	SW.		
SOUTHERN.																					
Aneth	San Juan	4,800	4																		H. R. Antes.
Beaver	Beaver			59.1		80	11	29	27	45	0.38		0.20	0.0	3						A. B. Anderson.
Coyote T6	Garfield		3	50.0		86	7	20	27	54	0.40		0.27	0.0	3	20	3	1			H. J. McCullough.
Escalante T6	Garfield	5,700	4	62.0		89	0	33	29	42	1.61		1.40	0.0	4	0	19	2	W.		W. G. Bleak.
Experiment Farm	Washington			67.2		102	7	31	20	56											Joseph T. Atkin.
Frisco	Beaver	7,318	10	63.4	+0.4	89	5	30	*27	33	0.55	+0.11	0.12	0.0	5	15	13	2	SW.		S. N. Slaughter.
Giles	Wayne	4,000	9	65.0	+0.5	94	10	37	27	51	0.88	+0.26	0.85	0.0	2	21	4	5			J. C. White.
Grover (near)	Wayne	5,800	8																		John C. Jacobs, Jr.
Hite	Garfield	3,000	5	71.1	+2.8	100	8	48	28	13	0.55		0.50	0.0	2	13	4	3			F. W. Gibbons.
Kaibab T7	Kane	4,925	4	59.4		90	8	26	27	48	0.70		0.50	0.0	2	14	3	10			E. M. Ford.
La Sal	San Juan	7,000	4	58.9		81	*7	27	27	43	0.66		0.28	0.0	5	12	10	2			Mrs. G. W. Carpenter.
Loa	Wayne	7,000	12	56.6	+3.4	81	7	20	28	48	0.20	-0.30	0.20	0.0	1						Michael Hansen.
Land	Iron	5,192	4																		B. R. Transeau.
Marysvalle (near)	Piute	6,180	5	77.8		88	*6	27	27	52	0.98		0.31	0.0	7	10	7	13	HW.		G. T. Henry.
Minersville	Beaver	5,070	7	64.0	+0.4	91	7	34	27	49			0.39	0.15	0.0	4	11	16	3		R. W. Dotson.
Monb.	Grand	4,000	15	68.0	+2.3	95	9	31	28												

Illustrationen.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Sections and stations.

Day of month.

† Precipitation incomplete.

661.0
5A7

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

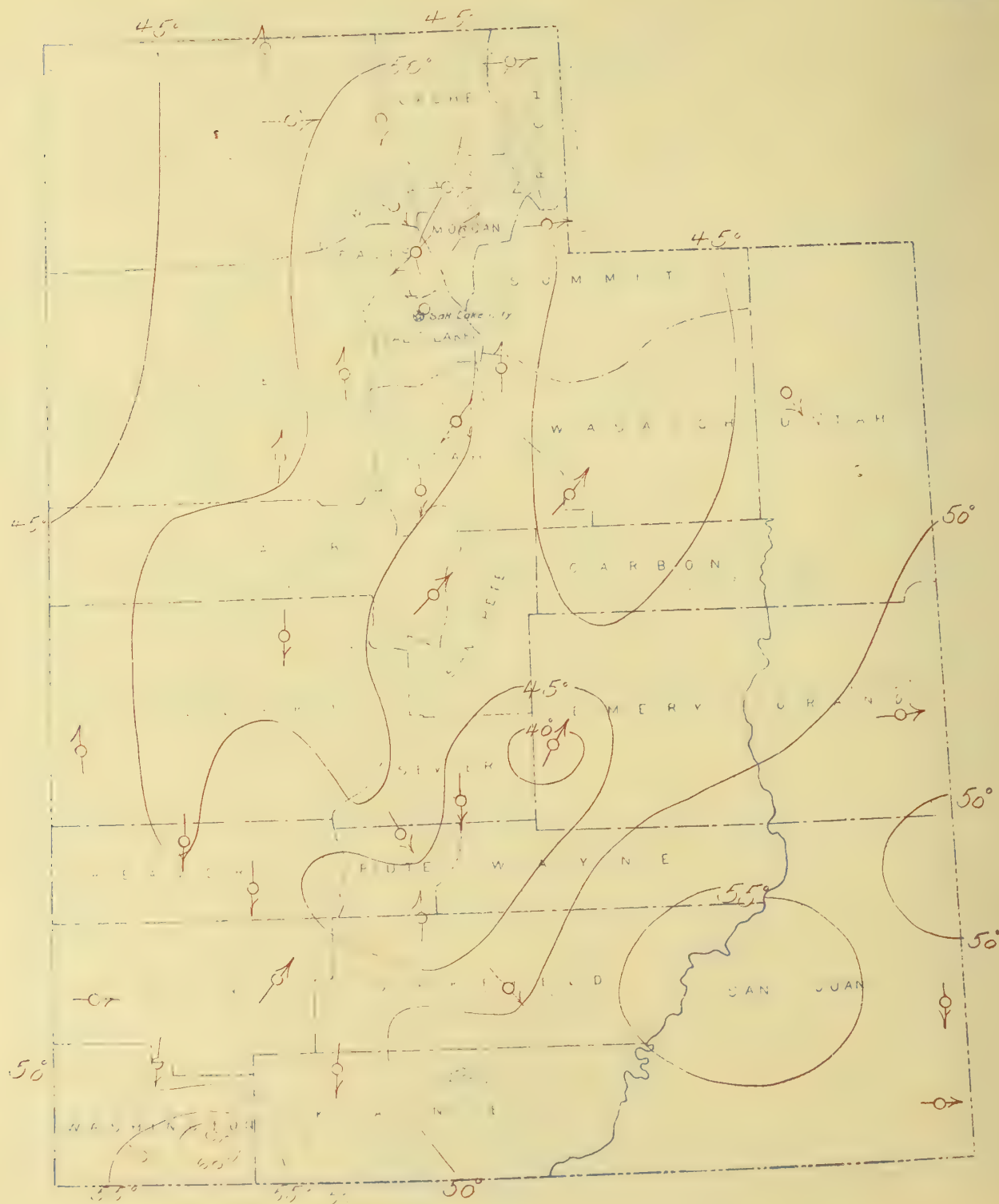
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
Nov. 26, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VI.

October, 1904.

No. 12.

WEATHER.

The month was noteworthy for its clear skies and abundant sunshine. For the first few days of the month and again during the latter half there was an almost uninterrupted succession of cloudless days, with continuous sunshine from morning till night. During the interim unsettled weather conditions prevailed, during which almost the entire precipitation for the month was recorded. On the 16th a severe storm passed over the northern half of the section. At first the precipitation was in the form of rain, but with the constantly falling temperatures, soon changed to snow, which was, however, very moist and mostly melted as it fell. With the clear skies that succeeded the storm area and the abnormally cold weather, severe frosts were formed in the early morning of the 18th that were quite general over the entire section, with the accompanying temperatures considerably below the freezing point. This marked the coldest period of the month throughout the greater portion of the section, and from this time on temperatures gradually rose.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 48.7°, or 0.1° below the normal. The highest local monthly mean was 62.7° at Rockville; the lowest was 39.0° at Emery. The highest temperature recorded was 97° at St. George on the 6th; the lowest was 7° at Soldier Summit on the 19th and 20th, and at Coyoto on the 19th, giving an absolute range for the section of 90°. The greatest daily range for any station was 57° at Rockville on the 16th. The highest temperatures of the month were generally recorded on the 5th; and the lowest on the 18th.

PRECIPITATION.

The average precipitation, determined from the reports of 64 stations, was 0.92 inch, or 0.12 inch above the normal. There was a decided excess over the northern portion and a slight deficiency over the southern, while the precipitation over the middle portion was almost exactly normal. The greatest monthly amount was 3.00 inches at Kelton, and the least a trace at Promontory.

Minersville, Ranch and Tropic. The greatest rainfall in any 24 consecutive hours was 1.52 inches at Alpine on the 11th and 12th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was west. The total number of miles recorded at Salt Lake City was 4,925; at Modena, 6,891; at Grand Junction, Colo., 3,515; and at Pocatello, Idaho, 5,602. The maximum velocity at Salt Lake City was 29 miles per hour from the southwest on the 15th; at Modena, 50 miles from the west on the 11th; at Grand Junction, Colo., 26 miles from the southwest on the 12th; and at Pocatello, Idaho, 31 miles from the southwest on the 12th.

The average number of clear days for the section during the month was 23; partly cloudy days, 5; cloudy days, 3. Determined from the records of automatic sunshine recorders, Salt Lake City had 75 per cent; Modena 92 per cent; Grand Junction, Colo., 87 per cent; and Pocatello, Idaho, 86 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 53 per cent, the lowest observed reading being 22 per cent on the 7th; at Modena, 51 per cent, the lowest observed reading being 13 per cent on the 2nd; at Grand Junction, Colo., 48 per cent, the lowest observed reading being 15 per cent on the 15th; and at Pocatello, Idaho, 64 per cent, the lowest observed reading being 25 per cent on the 4th.

There was an average of 3 days with .01 inch or more of precipitation over the section, 5 over the northern, 3 over the middle, and 2 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Fog.—Heber, 14; Henefer, 10, 14.

Sleet.—Castle Rock, 12, 15; Payson, 17; Utah Lake Pumping Station, 17.

Hail.—Black Rock, 9; Farmington, 9; La Sal, 6, 8, 9; Levan, 9; Marysvale, 17; Nephi, 17; Ogden, 9; Payson, 6; Provo, 6; Utah Lake Pumping Station, 5, 9.

High wind.—Aneth, 6, 15, 17, 18, 24; Coyoto, 18; Emery, 15; Frisco, 11; Garrison, 11; Giles, 17; Henefer, 6, 11; La Sal, 17; Marysvale, 11; Modena, 11; Parowan, 6, 15; Salt Lake City, 9, 11, 15, 16; Tropic, 15, 17; Utah Lake Pumping Station, 8, 17.

Killing frost.—Aneth, 18; Frisco, 16; Giles, 19; Kanab, 16-18, 30, 31; Levan, 16-21; Marysvale, 1-3, 10, 16; Moab, 16; Morgan, 2-4, 11, 13-15, 18, 19, 23-30; Modena, 10, 14, 16-31; Nephi, 16, 18, 19; Payson, 15-17; Provo, 18; St. George, 18; Salt Lake City, 18.

Thunderstorms.—Aneth, 6; Farmington, 9; Frisco, 6; Giles, 6-9; Henefer, 6, 9, 10; Huntsville, 6; Kanab, 6; La Sal, 6; Levan, 6, 11; Meadowville, 7; Mt. Nebo, 6; Ogden, 7; Parowan, 6-9; Payson, 6, 9; Provo, 6; Snowville, 6, 8, 9; Salt Lake City, 6, 9; Utah Lake Pumping Station, 5.

CROP CONDITIONS.

Exceptionally favorable weather conditions for the pursuit of farming operations prevailed during the month. The opportune rains during the middle of the month placed the ground in fine condition for fall plowing, while the no less timely spell of fair weather that followed the rain period enabled the farmer to make rapid advancement in farm work. At the close of the month fall plowing and the sowing of fall grain were nearing completion, with early-sown wheat coming up in localities and doing well. The acreage sown to fall grain shows a large increase over that of last year. The third crop of alfalfa was damaged in parts of the section by the rains. Potatoes were still being dug in many localities, with yields generally about average. Beet gathering was under rapid headway, but it will be some time yet before this work is completed. The crop is generally above average, both in quality and quantity. Ranges were fine, feed was plentiful and stock generally thriving.

OBSERVERS' REMARKS.

Alpine. Fine weather prevailed, and beets and potatoes are nearly all gathered; these crops gave average yields of good quality; all stock are doing well.—Thos. B. Whitby.

Black Rock.—More clear weather was experienced at this station than for many years in this month.—Willard Burbank.

Castle Rock.—A fine, clear month, with cold, crisp nights.—David Moore.

Farmington.—Favorable weather continued throughout the month for doing farm work; pastures are furnishing plenty of feed, and generally stock are in fine condition; the tomato crop was excellent, notwithstanding the fact that the killing frost came earlier than usual.—Chas. Boylin.

Heber.—A very pleasant month.—John Crook.

Henefer.—A very fine month for farm work.—Wm. Brewer.

Huntsville.—The first, third and fourth weeks were fine weather; the second week was generally too stormy to admit of much fall work; the soil is well soaked for fall ploughing.—Lars Petersen.

Marysville.—The high mountains are covered with snow; the leaves have nearly all fallen.—Geo. T. Henry.

Meadowville.—This has been a very fine month; several good showers about the middle of the month sprouted the wheat and put the ground in good shape for fall ploughing.—J. S. Moffatt.

Mt. Nebo.—October was a month of sunshine; no high winds or damaging storms; crops are all gathered, and some fall grain has been sown. D. C. Walkey.

Pinto.—Potatoes are all gathered; the range continues to afford abundant feed and the stock are consequently doing well; the weather is fine and admits of doing much fall work.—J. H. Harrison.

St. George. As a rule clear, bracing weather prevailed. James G. Bleak.

Tropic. Exceptionally fine harvest weather prevailed during the month; crops are normal; stock doing well. E. P. Bolton.

LATE SEPTEMBER REPORT.

Deseret: Mean temperature, 57.0; departure from the normal, -3.4; highest temperature, 91 on the 7th; lowest temperature, 27 on the 27th; greatest daily range, 56. Total precipitation, 0.32 inch; departure from the normal, -0.26 inch; greatest precipitation in any 24 consecutive hours, 0.20 inch on the 25th; days with .01 inch or more precipitation, 2; number of clear days, 17; partly cloudy days, 5; cloudy days, 8. Prevailing direction of the wind, south.

GREAT SALT LAKE.

The stage of the water remained stationary during the month of October, the readings on October 1st, 15th and November 1st being the same, exactly zero.

Comparative Temperature and Precipitation Data for October During the Past Fourteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	49.7	90	12	0.15
1892	48.3	92	7	1.08
1893	46.9	92	5	0.29
1894	49.8	94	9	0.47
1895	49.2	95	10	0.56
1896	51.0	94	13	1.61
1897	47.8	86	7	2.18
1898	47.0	90	3	0.67
1899	45.6	96	9	1.50
1900	48.9	95	— 1	0.87
1901	51.7	93	5	1.04
1902	50.0	91	8	0.28
1903	50.3	97	6	0.89
1904	48.7	97	7	0.92

CORRECTIONS TO JULY REPORT.

Page 6: Logan—Mean maximum temperature recorded 86.7, should be 86.6. Pinto—Mean minimum temperature recorded 46.9, should be 47.1. Wellington—Mean maximum recorded 87.1, should be 90.2; mean minimum recorded 47.5, should be 49.2.

Page 5: Pinto—Mean temperature recorded 64.7, should be 64.8. Promontory—Mean temperature recorded 73.6, should be 72.2. Wellington—Mean temperature recorded 67.3, should be 69.7.

CORRECTIONS TO SEPTEMBER REPORT.

Page 5: Frisco—Total precipitation recorded 0.55 inch, should be 0.45 inch; departure from the normal recorded +0.11, should be +0.01. Meadowville—Number of days missing recorded T4, should be T5.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, SNOWVILLE, BOX ELDER CO., UTAH.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	.....	.....	.....	46.2	58.9	62.6	74.8	.....	63.2	53.8	49.9	40.5	.....
1891	35.0	34.9	43.4	57.0	66.2	64.4	73.4	70.8	61.5	54.2	43.5	25.6	52.5
1892	23.0	32.3	43.2	48.7	62.2	69.1	.....	62.2	48.0	35.4	22.8	.....	.....
1893	20.2	18.2	29.8	42.2	51.6	61.6	68.0	67.6	56.8	45.6	32.7	31.2	43.7
1894	23.0	17.1	33.4	45.0	56.4	58.9	69.0	69.5	54.8	46.3	37.1	22.6	44.4
1895	18.0	19.8	.....	46.6	52.5	57.0	65.8	67.2	56.0	.....	31.2	20.0	.....
1896	27.8	31.3	34.1	42.0	46.3	63.2	69.4	67.3	58.0	48.0	30.0	32.2	45.8
1897	23.2	25.7	29.1	46.0	59.8	60.5	64.8	70.4	60.4	46.8	36.9	21.4	45.1
1898	13.7	26.4	32.4	49.0	.....	.....	70.8	71.6	58.2	42.2	34.2	17.6	.....
1899	27.3	24.9	34.7	46.2	47.2	57.3	70.4	63.1	61.0	43.5	40.0	22.0	44.8
1900	29.2	30.5	43.0	45.9	58.8	67.4	68.6	66.0	56.2	46.6	37.6	30.4	48.6
1901	26.6	29.8	35.3	44.0	57.4	57.2	72.6	70.6	58.8	55.6	45.0	27.9	48.4
1902	23.8	33.6	33.4	44.9	54.0	61.6	63.8	64.7	54.8	47.8	33.9	25.1	45.1
1903	24.6	12.7	35.3	42.5	49.6	94.4	67.2	66.8	54.2	46.6	33.4	24.8	43.5
1904	20.2	27.8	35.0	46.2	52.2	59.9	66.6	67.6	59.1	.....	.....	.....	.....
Mean	24.0	26.1	35.6	43.5	55.2	61.7	68.9	67.9	58.3	48.1	37.2	26.1	46.0

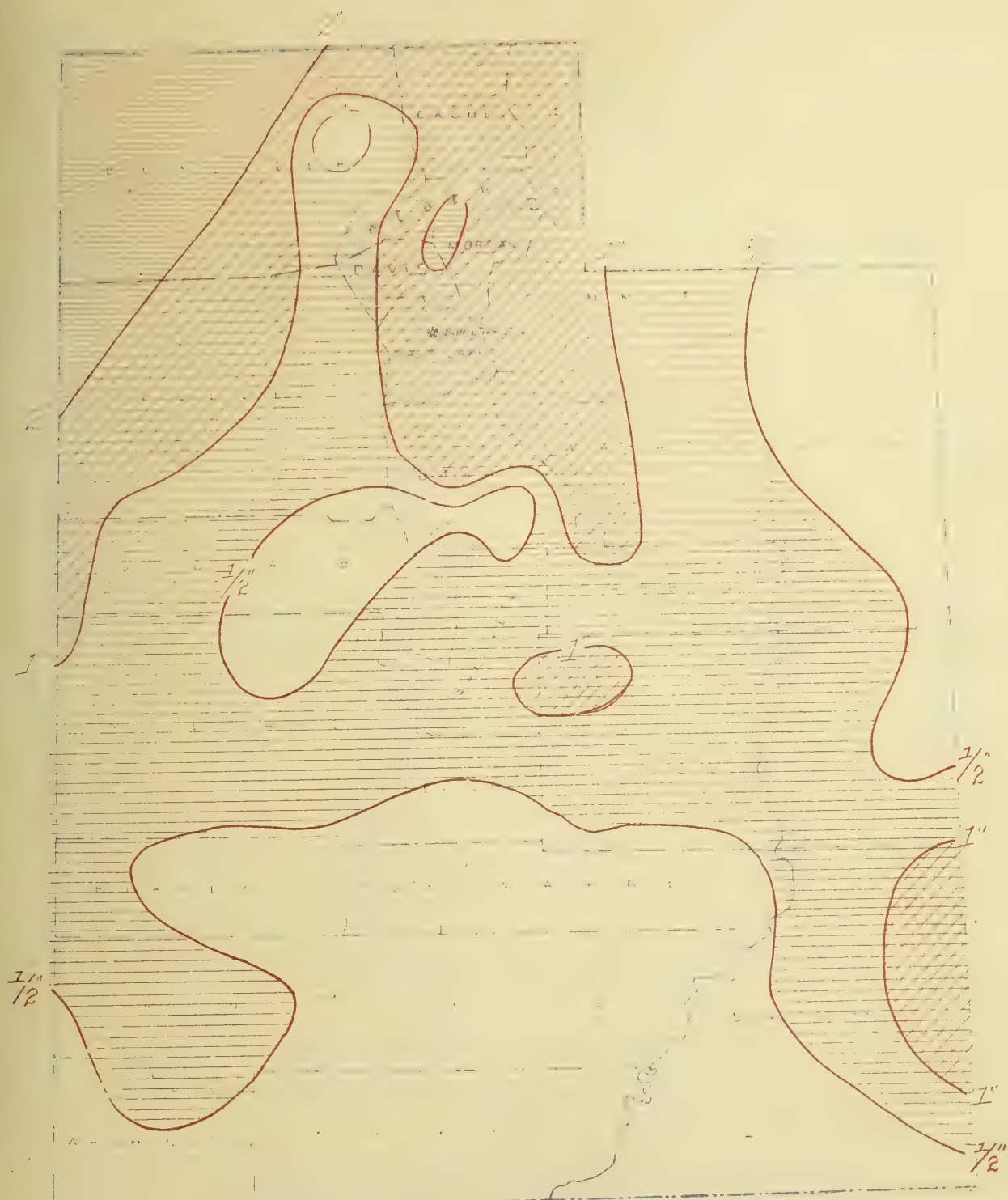
TOTAL PRECIPITATION.

1890	.....	.....	1.66	1.97	0.12	0.27	0.09	0.34	0.91	0	0.19	.....	.....
1891	1.68	0.98	1.52	1.37	1.94	1.56	0.62	0.28	2.64	0.66	0.38	2.08	15.11
1892	0.35	0.34	1.40	1.25	2.50	1.64	.....	.....	0.49	0.81	0.10	1.59	.....
1893	0.90	1.80	2.19	0.73	1.28	0.08	0.22	0.11	0.73	0.47	1.38	0.77	16.96
1894	2.20	1.00	2.68	0.65	0.41	1.00	0.49	0.14	0.75	0.54	0	2.55	11.81
1895	2.15	0.42	2.12	0.76	1.32	0.17	0.25	0.68	0.39	.....	1.30	0.50	.....
1896	1.29	0.36	1.50	1.07	2.35	0.68	2.30	0.63	0.21	0.93	1.97	0.90	14.28
1897	1.00	0.95	0.84	0.90	0.33	0.26	0.27	0	0.60	3.30	0.90	0.70	10.05
1898	0.80	0.30	0.76	0.76	.....	.....	0.06	0.66	0.14	0.81	1.16	0.60	.....
1899	1.15	1.28	1.65	0.10	0.75	0	0.17	0.50	0	1.24	1.72	1.70	16.86
1900	0.68	0.76	0.07	3.52	0.53	0	0	0.12	0.50	0.93	0.71	0.10	7.92
1901	0.87	1.04	0.95	0.41	0.73	0.12	0.20	1.15	0.21	2.76	0	1.00	9.44
1902	0.60	1.17	1.32	1.82	0.63	0.34	0.39	0	0.15	0.49	1.40	0.90	9.51
1903	1.93	0.05	0.57	1.66	1.69	0.40	0	0.02	0.06	0.31	1.87	1.00	9.65
1904	1.80	2.25	4.35	1.38	0.65	0.20	0.25	0.17	0.28	.....	.....	.....	.....
Mean	1.20	0.93	1.55	1.20	1.22	0.48	0.39	0.41	0.50	1.02	0.92	1.01	16.72

CLIMATOLOGICAL DATA FOR UTAH, OCTOBER, 1904.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, in inches.	Days with an inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
NORTHERN.																				
Albion Smith's Fork	Utah	4,900	8								1.72	+0.40	1.07		3					T. B. Whithy.
Albion Rock	Cache										1.03		0.77		8	23	6	8	W.	A. M. Erickson.
Albion	Summit										0.80		0.80	T.	1	23	6	8	n.	David Moore.
Albion	Box Elder	4,210	34	52.0	+1.1	85	1	27	18	41	0.80		0.17	0.80	1.0	6	23	6	8	W. E. Johnson.
Albion	Uinta	6,950	10	43.5	+1.2	73	5	20	19	12	1.23	+0.03	0.60		6	23	5	3	W.	Frank Tucker.
Albion	Davis	4,297	4	49.0	-1.7	55	1	26	19	10	2.02	+0.70	0.82	T.	6	22	6	3	ne.	Charles Boylin.
Albion	Uintah	8,060	10	47.7	+0.9	78	7	18	18	49	0.44	-0.12	0.26	T.	3	28	7	1	nw.	Ferdinand Rohricht.
Albion	Wasatch	5,006	11	47.2	+2.3	8	5	17	18	51	1.22	-0.12	0.40		3	22	8	1	s.	John Crook.
Albion	Summit	5,301	5	47.2	+2.4	81	5	15	31	1	1.29	+0.13	0.68	T.	5	29	8	4	W.	William Brewer.
Albion	Weber	5,100	9								2.04	+0.37	0.74		5	29	8	2	W.	Lars Petersen.
Albion	Box Elder	4,230	10	48.5	-2.0	71	1	21	17	39	3.00	+2.05	1.50		3	28	3	0		Agent So. Pacific Co.
Albion	Cache	1,597	13	52.6	+2.4	80	5	25	18	11	1.57	+0.13	0.85		5	21	6	4	W.	James Dryden.
Albion	Rich	6,200	5	44.2	+0.2	71	5	20	18	39	1.66	+0.66	0.90	T.	5	21	6	4	W.	J. S. Moffat.
Albion	Cache	4,818	9								1.29	-0.28	0.68		5	21	6	4	W.	Fred Yeates.
Albion	Morgan	1	1	47.5		85	10	18	*18	51	1.18		0.38	1.0	6	23	5	1	sw.	T. R. G. Welch.
Albion	Cassia	4,191	11																	Thomas Adams.
Albion	Weber	4,310	3	51.4		77	5	25	18	30	1.78		0.73		6	21	4	5	nw.	Enoch Farr.
Albion	Weber	4,310	34	53.2	+1.5	74	3	30	20		1.47	+0.17	0.60	T.	6	21	1	9	n.	W. H. Chevers.
Albion	Summit	6,846	7												5	21	6	3	e.	J. H. Hance.
Albion	Bannock	4,188	4	50.5	+2.5	80	5	25	18	29	0.83	-0.23	0.37	1.8	5	21	7	3	e.	Weather Bureau.
Albion	Box Elder	1,913	34			71	11	20	18		T.	-0.57	T.	T.	5	24	6	7	W.	Agent So. Pacific Co.
Albion	Rich																			Wm. Rex.
Albion	Salt Lake		1	51.4		74	5	30	*18	28	1.02		0.53	2.0	7					Francis W. Bailey.
Albion	Salt Lake	1,360	30	53.1	+0.8	83	5	28	18	33	1.18	-0.36	0.73	0.3	8	20	5	6	se	Section Center.
Albion	Box Elder	4,300	14	48.0	-0.1	80	1	21	18	52	2.21	+1.19	1.18		7	20	5	6	s.	Joseph Robbins.
Albion	Box Elder	1,550	31												4	25	1	2	s.	Agent So. Pacific Co.
Albion	Tooele	4,000	8	51.5	+1.1	78	5	27	18	30	0.75	-0.68	0.52		4	25	1	2	s.	I. J. Elkington.
Albion	Oneida	4,460	6	48.2		72	28	22	18	47	1.31				6	19	4	8	W.	William Chatterton.
Albion	Rich	7,500	7	43.0	+2.9	74	1	12	20	50	1.66	+0.77	0.75		6	19	4	8	W.	Thomas Ashton.
Averages			7	49.1	+0.9						1.39	+0.34			5	22	4	5	W.	
MIDDLE.																				
Albion	Millard	5,802	4	46.0		79	5	16	18	45	0.65		0.31	T.	3	25	3	3		Willard Burbank.
Albion	Juab		2	49.0		83	5	15	18	53	0.76		0.58		2	18	6	7		E. E. Edwards.
Albion	Emery	5,504	5	45.6	-3.2	79	3	14	18	48	1.35	+1.06	1.30		2	21	7	1		James Jell.
Albion	Grand	4,385	12	51.0	-2.0	78	3	22	*9	43	0.47	-0.26	0.37		2	21	6	1	W.	H. T. Matthews.
Albion	Millard	1,544	10	46.8	-2.9	82	4	10	18	55	0.32	-0.19	0.25		2	28	6	3	n.	S. W. Western.
Albion	Emery	6,206	4	39.0		58	1	20	*16	31	0.75		0.75		1	17	10	4	sw.	H. C. Wickman.
Albion	Millard	5,000	14	51.4	+2.2	82	5	21	18	16	0.62	-0.24	0.25		4					J. J. Starley.
Albion	Millard		1	47.6		50	5	15	18	30	0.94		0.50		3	22	6	2	s.	E. M. Smith.
Albion	Tooele	2,277	4	49.0		81	5	23	18	39	1.04		0.97	T.	2	21	1	3	s.	Walter James.
Albion	Mesa	4,008	13	53.3	+0.5	82	5	29	19	35	0.49	-0.67	0.47		4	25	3	3	se.	Weather Bureau.
Albion	Emery	4,080	7												2	19	10	1		J. T. Farrer, Jr.
Albion	Tooele		1	41.6		80	5	15	18	50	1.70		1.25		2	19	10	1		Owen Sheridan.
Albion	San Pete										0.50		0.34		2					R. H. Spencer.
Albion	Juab	5,010	14	47.4		77	5	21	18	35	0.98	-0.31	0.43	0.8	4	25	3	3	sw.	William Brown.
Albion	San Pete	5,575	10	46.0	-3.4	78	5	19	18	41	0.94	+0.12	0.38		5					W. M. Harmon.
Albion	Utah	4,050	3	50.2		80	5	20	18	38	0.25		0.15		4	25	3	3	n.	D. C. Walkey.
Albion	San Pete	5,859	12	48.9	-1.7	81	5	21	17	48	0.88	-0.05	0.49		3	21	10	0		Web Greene.
Albion	Juab										1.07		0.45	T.	4	25	3	3		H. D. Alfred.
Albion	Utah	4,037									1.23		0.37		5	21	8	2	sw.	W. C. Wightman, Jr.
Albion	Utah	1,532	12	50.8	+2.1	81	5	23	18	49	1.50	+0.74	0.61		6	21	8	2	var.	Caleb Tanner.
Albion	Sevier	5,323	14												2					J. M. Lauritzen.
Albion	Millard		9	48.6	+1.1	84	5	14	31	55	0.95	-0.41	0.39	T.	5	23	1	7	sw.	Thomas Memmott.
Albion	Utah	7,474	12	40.6	-0.4	73	5	7	*19	46	1.21	+0.54	0.42	2.0	4	23	0	8	sw.	Agent Rio Grande R. R.
Albion	Utah	5,475	12	46.6	-1.1	74	5	20	*17	50	0.27	-0.29	0.15	1.5	1	19	8	4		J. H. Mitchell.
Albion	Carbon	5,540	5	47.4		81	4	18	*29	52	0.80		0.60		2					E. E. Branch.
Averages			7	47.4	-0.9						0.87	+0.01			3	22	5	4	sw.	
SOUTHERN.																				
Albion	San Juan	4,806	4	53.5	-2.7	85	5	27	19	43	0.50	+0.10	0.50		1	28	2	1	W.	H. R. Antes.
Albion	Beaver			45.0		80	5	11	*15	50	0.67		0.30		3					A. B. Anderson.
Albion	Garfield		3	40.5		70	5	7	19	54	0.10		0.10		1	25	2	4	s.	H. J. McCullough.
Albion	Garfield	5,704	4	49.6		87	7	21	21	30	0.46		0.35		2	23	6	2	W.	W. G. Bleak.
Albion	Washington																			Joseph T. Atkin.
Albion	Beaver	7,318	10	49.7	-0.4	77	3	21	18	30	0.41	-0.24	0.26		2	24	6	1	n.	S. N. Slaughter.
Albion	Wayne	4,000	9	50.8	-0.4	82	5	18	19	48	0.34	-0.27	0.34		1	20	1	1		J. C. White.
Albion	Wayne	5,800	8																	John C. Jacobs, Jr.
Albion	Garfield		5	59.7		91	5	32	19	14	0.36		0.36		1	27	1	0		F. W. Gibbons.
Albion	Kane	4,925	4	48.2		83	5	18	31	50	0.80		0.50		2	25	0	5		E. M. Ford.
Albion	San Juan	7,000	4	45.2		74	5	16	17	40	1.04		0.91		4	25	5	1		Mrs. G. W. Carpenter.
Albion	Wayne	7,000	12	42.2	+0.7	73	3	15	*18	46										Michael Hansen.
Albion	Iron	5,092	4																	B. R. Transeau.
Albion	Piute	6,180	5	47.2		81	5	14	19	51	0.40		0.10		3	19	9	3	nw.	G. T. Henry.
Albion	Beaver	5,070	7	50.2	-1.5	89	8	20	18	44	T.	-0.74	T.		0	18	3	1	n.	R. W. Dotson.
Albion	Grand	4,000	15	53.1	-0.2	81	5	24	19	40	0.63	+0.03	0.47		3	22	8	1		Henry Crouse.
Albion	Iron	5,479	1	47.9	-2.1	79	4	8	19	41	0.59	-0.18	0.32		5	22	6	0	W.	Weather Bureau.
Albion	San Juan	7,280	2	53.0		7														

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Sections and stations.	Day of month.																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
NORTHERN.																															
Alpine						T.	.11			1.52								.09													
Blacksmith's Fork																															
Blue Creek																															
Castle Rock						T.			.04			.77	.08		.12	.02															
Corinne																															
Evanston, Wyo						T.	.16		.18	.06		.60	.18		.05			T.													
Farmington		.20			T.	.15	.13					.82	.20					.52													
Ft. Duchesne		.26	.05								.13							.12													
Heber					T.	.38		.28	.04			.40			T.			.12													
Hemifer					T.	.09		.21	.09			.68	T.		.02	.10	.10														
Huntsville					T.			.72			.68				.47	.09															
Kelton						1.50				1.50																					
Logan								.30			.85					.08	.29				.05										
Mea lowville						.20		.10			.90				.10	.30	T.														
Millville						.15		.13							T.	.11	.22														
Morgan					T.			.16	.21	T.	.38	T.			.10	.18	.15														
Oakley, Idaho																															
Ogden No. 1						.12		.04	.25		.73					.51	.13														
Ogden No. 2						.16		.21			.61	.03			.36		.10														
Park City																															
Pocatello, Idaho					T.	.16	T.	.18	T.		.01				T.	.14	.34														
Promontory					T.						T.				T.																
Randolph																															
Saltair Beach						.05	.03			.01	.53	.02				.05	.33														
Salt Lake City						.01	.02		.04	.01	T.	.64	.15			.03	.28</														

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR NOVEMBER, 1904.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

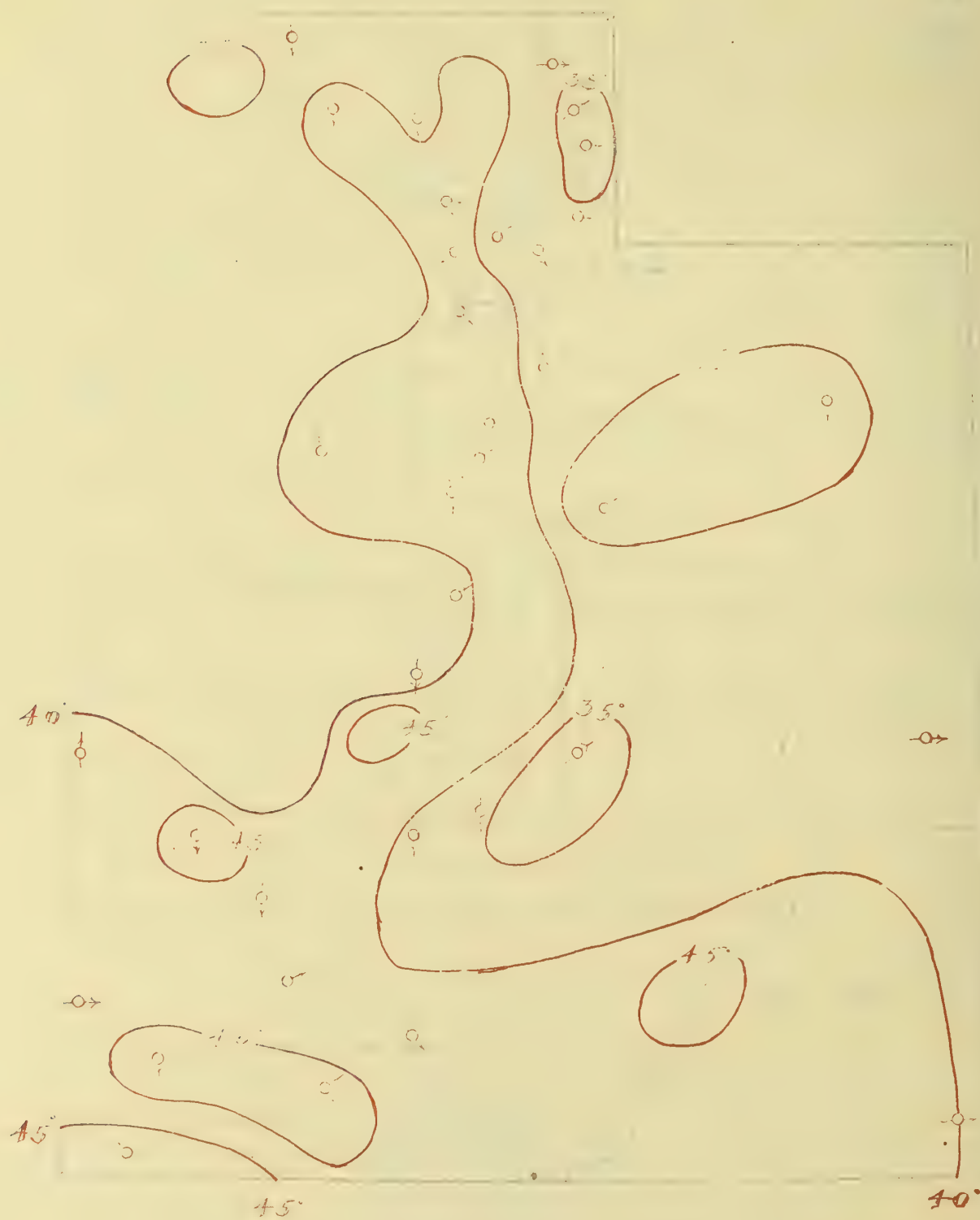
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
DEC. 22, 1904.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

November, 1904.

No. 1.

WEATHER.

The bright, warm Indian summer weather of the latter part of October continued almost uninterruptedly throughout November, with but a few cloudy days, and here and there a trace of precipitation to break the monotony. As a consequence there is a dearth of snow and water, and an abundance of dust throughout the State.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 39.4°, or 2.5° above the normal. The highest local monthly mean was 49.4° at St. George; the lowest was 32.5° at Soldier Summit. The highest temperature recorded was 83° at Fillmore on the 22nd; the lowest was zero at Woodruff on the 11th, giving an absolute range for the section of 83°. The greatest daily range for any station was 65° at Castle Dale on the 11th. The highest temperatures of the month were generally recorded on the 1st; and the lowest from the 11th to the 13th.

PRECIPITATION.

The average precipitation, determined from the reports of 65 stations, was only a trace, or 0.79 inch below the normal. Six stations in the northern section received a trace or more precipitation; one station, only, received a trace in the middle section; and in the southern section three stations received a trace of rain. The greatest monthly amount was 0.05 inch at Meadowville, and the least was none at 55 stations. The greatest precipitation in any 24 consecutive hours was 0.05 inch at Meadowville on the 19th, when one-half an inch of snow fell.

WIND AND WEATHER.

The prevailing direction of the wind for the section was north. The total number of miles recorded at Salt Lake City was 3,406; at Modena, 6,616; at Grand Junction, Colo., 2,573; and at Pocatello, Idaho, 5,469. The maximum velocity at Salt Lake City was 22 miles per hour from the northeast on the 10th; at Modena, 36 miles from the west on the 15th; at Grand Junction, Colo., 19 miles from the north on the 9th; and at Pocatello, Idaho, 30 miles from the southwest on the 28th.

The average number of clear days for the section during the month was 25; partly cloudy days, 3; cloudy days, 2. Determined from the records of automatic sunshine recorders, Salt

Lake City had 88 per cent; Modena 89 per cent; Grand Junction, Colo., 93 per cent; and Pocatello, Idaho, 82 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 45 per cent, the lowest observed reading being 45 per cent on the 15th; at Modena, 50 per cent, the lowest observed reading being 40 per cent on the 22nd; at Grand Junction, Colo., 42 per cent, the lowest observed reading being 30 per cent on the 12th; and at Pocatello, Idaho, 55 per cent, the lowest observed reading being 23 per cent on the 23rd.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Dense fog.—Marysville, 19.

Solar halo.—Henefer, 21; Ranch, 13.

Lunar halo.—Henefer, 13, 21, 26; Modena, 2; Mount Nebo, 14; Randolph, 11, 18.

Lunar corona.—Government Creek, 14-16, 20; Marysville, 14, 17, 20, 21; Tropic, 20.

High wind. Black Rock, 30; Fort Duchesne, 9, 10; Beaver, 30; La Sal, 9; Marysville, 9; Parowan, 18; Utah Lake Pumping Station, 9, 14, 18, 23, 24.

CROPS AND FARMING OPERATIONS.

During the past six weeks of fair weather farm work in Utah has been vigorously prosecuted, and, notwithstanding the vast acreage that has been plowed, a great deal more of this work was prevented only by the dryness of the ground, and, in the more elevated districts, by the frost.

The gathering of fall crops advanced unimpeded, and practically every field was cleared and the crops housed under extremely favorable conditions. The fall grain that had the advantage of the early October rains made an excellent showing until quite recently, when the blighting results of the drouth have been particularly manifested, and at the close of November these early sown cereals were making no perceptible growth. Later sown grain has mostly lain dormant in the ground, there being but a small percentage of it up, owing to the deficiency of moisture. Not enough precipitation is reported from any district in the state to properly germinate the seed. A considerable acreage that had been reserved for wheat could not be sown on account of the dryness.

The range has held out well, notwithstanding the fact that the fine weather has permitted the flocks and herds to be at large all the time. No reports come of feeding, in spite of which all stock are going into the winter with a good weight of flesh, and few losses are anticipated.

OBSERVERS' REMARKS.

Alpine.—A very dry month, with warm days and cold nights; range drying up.—T. B. Whitby.

Black Rock.—An unusual month, in that not even a trace of precipitation fell; there were also a greater number of clear days than usual; the month was also remarkably free from high winds, and there was a great daily range of temperature.—Willard Burbank.

Castle Rock.—The finest November ever experienced in this vicinity; ranges are dry, but cattle still doing well.—David Moon.

Emery. The month was very dry; there is no snow in the mountains. H. C. Wickman.

Farmington.—The past month has been very dry. The ground is very dry in places, and rain or snow is badly needed for fall plowing. The prospects for next season's supply of water are very poor, as there is, as yet, no snow in the mountains.—C. Boylin.

Fort Duchesne.—Clear skies prevailed during the entire month.—L. R. Stewart.

Frisco.—A very dry month, and rain or snow is badly needed. S. N. Slaughter.

Government Creek.—A remarkably pleasant month. There was no precipitation.—Walter James.

Heber.—The driest month on record; there was only one cloudy day and absolutely no precipitation. Very little plowing has been done, owing to the dry condition of the soil.—John Crook.

Henefer.—A very favorable month for farm work, but there was no precipitation.—Wm. Brewer.

Huntsville.—There was no storm during the month, which was the finest since 1894.—Lars Petersen.

Kanab.—Clear skies have prevailed almost every day during the entire month.—E. M. Ford.

Levan.—The driest month on record here.—Wm. Brown.

Marysvale.—Month very dry, with clear skies; some snow on the high mountains; range stock looking well.—Geo. T. Henry.

Meadowville.—The month has been one of the finest ever experienced in this section.—J. S. Moffatt.

Morgan.—Temperatures during the month have been very erratic, but the weather has been favorable for outdoor work.—T. R. G. Welch.

Mount Nebo.—A month of clear skies and sunshine; no storms and no precipitation.—D. C. Walkey.

Pinto.—The month has been dry and pleasant.—J. H. Harrison.

St. George.—Beautifully clear weather prevailed throughout the month.—James G. Bleak.

Scipio.—Weather cold and dry; precipitation badly needed; prospects for fall grain poor.—Thos. Memmott.

Woodruff. This has been a remarkably dry month. Thos. Ashton.

GREAT SALT LAKE.

The lake level has made no perceptible oscillations since October 1st, the gage reading being still exactly zero on December 1st.

LATE OCTOBER REPORTS.

Randolph: Total precipitation, 1.46 inches; greatest in any 24 consecutive hours, 0.60 inch on the 14th; number of rainy days, 5; clear, 21; partly cloudy, 7; cloudy, 3; direction of the wind, southwest.

Blacksmith's Fork: Total precipitation, 1.73 inches; greatest in any 24 consecutive hours, 1.30 inches on the 12th; total snow-fall, 2.0 inches; number of rainy days, 7; clear, 24; partly cloudy, none; cloudy, 7.

Experiment Farm: Mean temperature, 53.8; maximum temperature, 93 on the 4th; minimum temperature, 17 on the

18th; the greatest daily range, 58°; number of clear days, partly cloudy, none; cloudy, 3.

Comparative Temperature and Precipitation Data for November During the Past Fourteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	41.1	80	6	0.21
1892	36.7	76	— 6	0.30
1893	34.4	86	—16	0.83
1894	40.0	82	— 9	0.05
1895	32.7	75	—24	1.47
1896	33.4	78	—20	1.23
1897	39.3	78	— 1	0.96
1898	35.7	82	— 8	0.96
1899	40.5	82	— 3	0.70
1900	40.1	80	1	1.51
1901	41.3	76	0	0.29
1902	36.9	81	—13	1.78
1903	39.1	80	—19	0.73
1904	39.4	83	0	T.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, FT. DUCHESNE, UINTAH CO., UTAH.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1890	11.6	29.9	37.0	49.4	60.9	63.6	74.3	69.0	60.8	45.5	34.6	26.8
1891	16.2	19.1	.....	.....	.....	60.6	69.7	69.7	60.8	45.4	36.0	20.2
1892	14.0	30.4	39.4	46.4	53.8	64.0	70.8	69.0	63.8	.....	34.7	.....
1893	.....	.....	.....	.....	.....	73.4	74.1	70.2	61.4	48.2	32.9	30.4
1894	8.1	8.8	39.4	47.9	60.7	68.0	72.7	72.0	68.0	48.3	41.0	24.8
1895	8.5	7.3	27.9	47.9	55.2	60.4	64.6	69.8	60.4	47.5	27.1	2.4
1896	11.9	15.8	35.1	44.0	53.4	67.2	70.4	69.2	59.6	48.0	30.3	22.4
1897	12.3	15.5	27.0	46.0	59.9	62.8	67.5	69.6	62.0	48.2	34.6	6.7
1898	—2.3	8.2	26.6	49.6	54.0	64.8	72.2	71.4	59.7	43.9	28.8	10.1
1899	17.2	23.7	35.4	46.8	53.2	64.6	71.0	66.6	63.1	44.0	36.6	13.1
1900	16.6	24.4	42.8	48.4	58.6	69.0	72.2	68.7	56.6	46.6	35.9	24.1
1901	22.0	22.0	36.4	46.8	60.4	64.2	71.0	69.2	54.8	48.6	36.1	18.0
1902	13.2	27.0	35.0	48.8	50.6	68.7	68.8	69.4	.....	43.6	30.2	.....
1903	.....	1.6	28.3	41.3	52.4	65.2	68.5	69.0	57.0	46.2	31.8	18.2
1904	.....	36.0	40.4	52.0	58.2	63.2	70.5	70.3	59.9	47.7	.....	.....
Mean	12.4	19.3	34.7	47.6	56.9	65.3	70.8	69.5	60.6	46.6	.....	.....

TOTAL PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1890	1.01	2.05	0.02	0.21	0	0	1.35	0.85	0.32	1.17	0.03	0.27
1891	0.22	0.28	0.57	0.99	0.96	0.34	0.24	0.24	1.46	0	0	1.06
1892	0.46	0.30	0.78	1.24	1.35	0.03	0.16	0.85	T.	.....	0.14	0.46
1893	0.42	0.44	3.10	2.01	0.92	0	0.47	0.57	0.36	0.16	0.24	0.49
1894	0.08	0.19	0.56	T.	0.20	0.34	0.26	0.30	1.88	0.34	0	0.69
1895	0.09	0.03	0.09	0	1.53	1.02	0.17	0.20	0.03	0.13	0.90	0.31
1896	0.06	0.09	0.14	0.20	1.40	0.03	1.45	0.64	2.23	0.54	0.20	0
1897	0.87	0.90	0.28	0.01	0.16	0.02	0.17	0.21	4.61	3.00	0	1.20
1898	0.60	0.10	0.75	0.17	0.61	0.45	0.66	0.66	0.08	0.05	0.13	0.10
1899	0.20	0.40	2.10	0.60	T.	0.05	0.71	0.90	0	0.83	0.77	0.12
1900	0.35	0	0	1.72	0.15	0.06	0.03	0.40	1.25	0.27	0.51	0.30
1901	0.25	0.95	0.15	0.20	0.60	0.08	0.14	2.47	0.03	0.64	0.16	0.51
1902	0.17	0.05	0.14	0.70	0.30	0.50	0.05	.....	.....	0	.....	.....
1903	.....	0.80	0.08	0	1.02	0.28	1.49	0.20	1.20	0.48	0	0
1904	.....	0.01	1.10	0.25	2.78	0.70	0.37	0.66	0.32	0.44	.....	.....
Mean	0.37	0.44	0.66	0.55	0.80	0.26	0.51	0.65	0.98	0.58	.....	.....

CLIMATOLOGICAL DATA FOR UTAH, NOVEMBER, 1904.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches						Sky			Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (inches)	Days with at least one inch or more	Number clear days	Number partly cloudy days	Number cloudy days		
NORTHERN.																				
Alpine	Utah	4,900	8								0.00	-1.62	0.00	0.0						T. B. Whitby.
Blacksmith's Fork	CACHE										0.00		0.00	0.0	30	0	0			A. M. Erickson.
Castle Rock	Summit										0.00		0.00	0.0	21	5	1	W.	David Moore.	
Cortina	Box Elder	4,240	34	39.8	+1.2	60	9	10	12	10	0.00	-0.93	0.00	0.0	21	1	8	n.	W. E. Johnson.	
Evanson, Wyo.	Uinta	10,959	10	30.0	+3.8	61	2	9	11	19	0.00	-0.99	0.00	0.0	27	3	0	SW-W	Frank Tucker.	
Farmington	Davis	4,267	4	40.5		62	3	20	13	38	0.00		0.00	0.0	26	4	0	ne.	Charles Boylin.	
Fl. Duchesne	Uintah	5,000	10	32.6	-1.0	66	1	5	12	46	0.00	-0.24	0.00	0.0	30	0	0	n.	Ferdinand Rohricht.	
Hober	Wasatch	5,666	11	37.4	+1.4	66	2	10	11	51	0.00	-1.65	0.00	0.0	27	2	1	S.	John Crook.	
Homer	Summit	5,304	5	37.1		67	*2	5	12	59	0.00		0.00	0.0	24	2	1	nw.	William Brewer.	
Huntsville	Weber	5,100	9								T.	-2.35	T.	0.0	22	6	2		Lars Petersen.	
Kelton	Box Elder	4,230	26	33.6	-1.0	59	1	10	13	10	0.00	-0.32	0.00	0.0	27	2	1		Agent So. Pacific Co.	
Logan	CACHE	4,507	13	4.9	+3.2	62	2	21	12	36	0.00	-1.33	0.00	0.0				W. M. Jardine.		
Monticello	Rich	6,200	5	35.2		58	*22	11	11	38	0.05		0.05	0.5	1	28	0	2	W.	J. S. Moffat.
Millville	CACHE	4,818	9								0.00		0.00	0.0					Fred Yeates.	
Morgan	Morgan		1	35.8		63	*3	8	*13	56	0.00		0.00	0.0	24	5	1	SW.	T. R. G. Welch.	
Oakley, Idaho	Cassia	4,191	11								0.00		0.00	0.0	22	6	1	nw.	Thomas Adams.	
Ogden No. 1	Weber	4,310	3	42.0		62	2	24	*13	28	0.00		0.00	0.0	22	6	1	nw.	Enoch Farr.	
Ogden No. 2	Weber	4,310	3	41.1	+1.8	65	9	22	29		T.	-1.70	T.	0.0	20	3	7	W.	W. H. Chevers.	
Park City	Summit	6,846	7								0.00		0.00	0.0					J. H. Hance.	
Pocatello, Idaho	Bannock	4,488	4	42.1	+9.1	63	4	18	13	10	0.02	-1.27	0.01	0.0	2	16	13	1	e.	Weather Bureau.
Primmory	Box Elder	4,913	34	44.4	+10.4	62	1	5	29		0.00	-0.53	0.00	0.0	28	0	2	n.	Agent So. Pacific Co.	
Railroad	Rich										0.03		0.03	0.0	1	23	4	3	SW.	Wm. Rex.
Saltair Beach	Salt Lake		1	39.7		59	2	21	13	27	0.00		0.00	0.0					Francis W. Bailey.	
Salt Lake City	Salt Lake	4,366	30	44.4	+4.6	66	1	20	24	30	0.00	-1.30	0.00	0.0	25	3	2	nw.	Section Center.	
Snowville	Box Elder	4,360	14	37.0	-0.6	70	1	8	13	47	T.	-0.92	T.	T.	0	22	7	1	n.	Joseph Robbins.
Terrace	Box Elder	4,550	31								0.00		0.00	0.0					Agent So. Pacific Co.	
Tooele	Tooele	4,900	8	42.4	+2.3	62	2	23	13	27	0.00	-1.68	0.00	0.0	24	5	1		L. J. Elkington.	
Weston, Idaho	Oneida	4,460	6	38.4	+1.8	68	2	11	13	40	0.08	-1.30	0.08	0.0	1	21	6	3	n.	William Chatterton.
Woolf	Rich	6,500	7	34.4	+3.3	66	1	0	11	50	T.	-0.40	T.	T.	0	15	11	4	W.	Thomas Ashton.
Averages				38.7	+2.3						T.	-0.94	T.	T.	0	24	3	3	n & W	
MIDDLE.																				
Black Rock	Millard	5,802	4	37.4		65	*1	5	12	51	0.00		0.00	0.0	0	22	6	2	S.	Willard Burbank.
Cattao	Juab		2	35.7		70	3	8	*13	51	0.00		0.00	0.0	0	23	6	1		E. E. Edwards.
Castle Dale	Emery	5,500	5	33.6		68	10	1	*11	65	0.00		0.00	0.0	0	27	3	0		James Jeffs.
Cisco	Grand	4,385	12	35.9	-3.5	66	1	5	13	46	0.00	-0.20	0.00	0.0	24	5	1	W.	H. T. Matthews.	
Deseret	Millard	4,541	10	37.8	+0.5	70	*1	3	14	59	0.00	-0.36	0.00	0.0	25	1	1	n.	S. W. Western.	
Emery	Emery	6,266	4	33.0		50	3	9	13	41	0.00		0.00	0.0	11	16	3	SW.	H. C. Wickman.	
Fillmore	Millard	5,100	14	48.9	+8.0	83	22	19	*13	57	0.00	-0.98	0.00	0.0					J. J. Starley.	
Garrison	Millard		1	41.0		67	*22	18	13	41	0.00		0.00	0.0	27	2	1	S.	E. M. Smith.	
Gov. M. T. Creek	Tooele	5,277	4	42.1		66	1	18	13	36	T.		T.	0.0	0	28	2	0	S.	Walter James.
Grand Junction, Col.	Mesa	4,068	13	39.6	-0.5	66	1	15	24	39	0.00	-0.63	0.00	0.0	22	8	0	SE.	Weather Bureau.	
Green River—T 13	Emery	4,080	7	31.3	-5.6	64	*19	7	*11	55	0.00	-0.44	0.00	0.0	14	1	2		J. T. Farrer, Jr.	
Idadah	Tooele		1	36.8		70	25	5	13	52	0.00		0.00	0.0	26	1	1		Owen Sheridan.	
Indianola	San Pete										0.00		0.00	0.0					R. H. Spencer.	
Levan	Juab	5,010	14	39.4	+2.7	60	*1	15	20	38	0.00	-0.97	0.00	0.0	27	2	1	SW.	William Brown.	
Manti—T 3	San Pete	5,575	10	40.5	+1.1	68	7	14	11	45	0.00	-0.68	0.00	0.0					W. M. Harmon.	
Mt. Nebo	Utah	4,050	3	42.3		64	2	16	29	36	0.00		0.00	0.0	27	2	1	n.	D. C. Walkey.	
Mt. Pleasant	San Pete	5,859	12	41.8	+2.5	65	22	18	10	38	0.00	-0.86	0.00	0.0	29	1	0		Web Greene.	
Nephi	Juab										0.00		0.00	0.0	27	2	1		H. D. Alfred.	
Payson	Utah	4,637									0.00		0.00	0.0	25	4	1	SW.	W. C. Wightman, Jr.	
Provo—T 1	Utah	4,534	12	42.4	+4.0	71	23	17	*12	51	0.00	-1.52	0.00	0.0	28	2	0	nw.	Caleb Tanner.	
Richfield—T 10	Sevier	5,343	14	40.3	+2.5	72	19	9	10	54	0.00	-0.18	0.00	0.0	16	3	1	n.	J. M. Lauritzen.	
Scipio	Millard	5,200	9	39.0	+1.6	70	3	3	11	62	0.00	-1.19	0.00	0.0	23	1	6	n.	Thomas Memmott.	
Soldier Summit	Utah	7,474	12	32.5	+4.7	59	1	3	11	49	0.00	-1.29	0.00	0.0	26	1	3	SW.	Agent Rio Grande R. R.	
Thistle	Utah	5,675	12	37.0	+0.1	70	1	8	12	50	0.00	-1.16	0.00	0.0	28	2	0		J. H. Mitchell.	
Wellington	Carbon	5,540	5								T.	-0.82	0.00	0.0	0	25	3	2	SW.	E. E. Branch.
SOUTHERN.																				
Aneth	San Juan	4,800	4	40.0	-3.5	67	9	11	13	41	0.00	-0.59	0.00	0.0	0	28	2	0	W.	H. R. Antes.
Beaver	Beaver			42.6		73	27	12	14	52	0.00		0.00	0.0					A. B. Anderson.	
Coyote	Garfield		3	35.4		60	28	2	12	60	0.00		0.00	0.0	0	26	0	4		H. J. McCullough.
Escalante	Garfield	5,700	4										0.00	0.0	0	29	0	1		W. G. Bleak.
Experiment Farm	Washington			46.0		77	9	15	12	49	0.00		0.00	0.0	0	29	0	1		Joseph T. Atkin.
Frisco	Beaver	7,318	10	46.1	+4.6	66	6	25	*12	36	0.00		0.00	0.0	0	25	5	0	n.	S. N. Slaughter.
Giles	Wayne	4,600	9	36.0	-2.5	67	*1	8	*11	50	0.00	-0.25	0.00	0.0	0	23	5	2		J. C. White.
Grover (near)	Wayne	5,800	8										0.00	0.0	0					John C. Jacobs, Jr.
Hite	Garfield	3,000	5	45.8		73	1	22	12	41	0.00		0.00	0.0	0	27	3	0		F. W. Gibbons.
Kanab—T 5	Kane	4,925	4	40.0		68	10	11	12	48	0.00		0.00	0.0	0	23	0	2		E. M. Ford.
La Sal	San Juan	7,600	4	39.0		60	1	13	10	38	0.00		0.00	0.0	0	23	6	1		Mrs. G. W. Carpenter.
Loa	Wayne	7,600	12	33.9	+2.1	62	1	2	11	50	0.00	-0.37	0.00	0.0	0	26	0	4		Michael Hansen.
Lund	Iron	5,692	4										0.00	0.0	0					B. R. Transeau.
Marysville (near)	Piute	6,180	5	39.5		72	22	6	*11	56	T.		T.	0.0	0	19	8	3	n.	G. T. Henry.
Moab	Beaver	5,070	7	38.8	+3.2	65	1	19	*11	40	0.00	-0.63	0.00	0.0	0	26	3	1	n.	R. W. Dotson.
Moab	Grand	4,000	15	38.8	+2.1	65	21	13	12	42	0.00	-0.55	0.00	0.0	0	15	14	1		Henry Crouse.
Moab	Iron	5,179	4	41.4	+1.9	66	22	15	12	45	0.00	-0.22	0.00	0.0	0	21	8	1	W.	Weather Bureau.
Parowan	Iron	5,970	13	40.9	+2.0	64	1	15	11	42	T.	-0.555								

MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, NOVEMBER, 1904.

Sections and stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Mean.
NORTHERN.																																	
Black Rock	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Calabaz	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Castle Lake	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Cisco	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Deseret	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Elmore	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Fillmore	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Garrison	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Green River	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Grand Junction	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Greenville	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Haystack	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Levan	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Manti	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Mount Nelo	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Mount Pleasant	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Navajo	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Richfield	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Scipio	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Soldier Summit	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Thistle	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Welling	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
SOUTHERN.																																	
Albany	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Braver	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Coxton	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Escalante	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Experiment Farm	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Frisco	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Giles	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Greer	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Hite	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Kanab	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
LaSal	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Lea	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Land	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Marysville (near)	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Marysville	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Mcab	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Modena	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67	40	67	41	67	42	67	43	67	44	67	45	67
Parowan	66	30	67	31	67	32	67	33	67	34	67	35	67	36	67	37	67	38	67	39	67</												

TOTAL PRECIPITATION FOR THE MONTH

DAILY PRECIPITATION FOR UTAH, NOVEMBER, 1904.

T indicates a trace of precipitation.

* Precipitation included in that of following day.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1904

661.0
UN 7

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

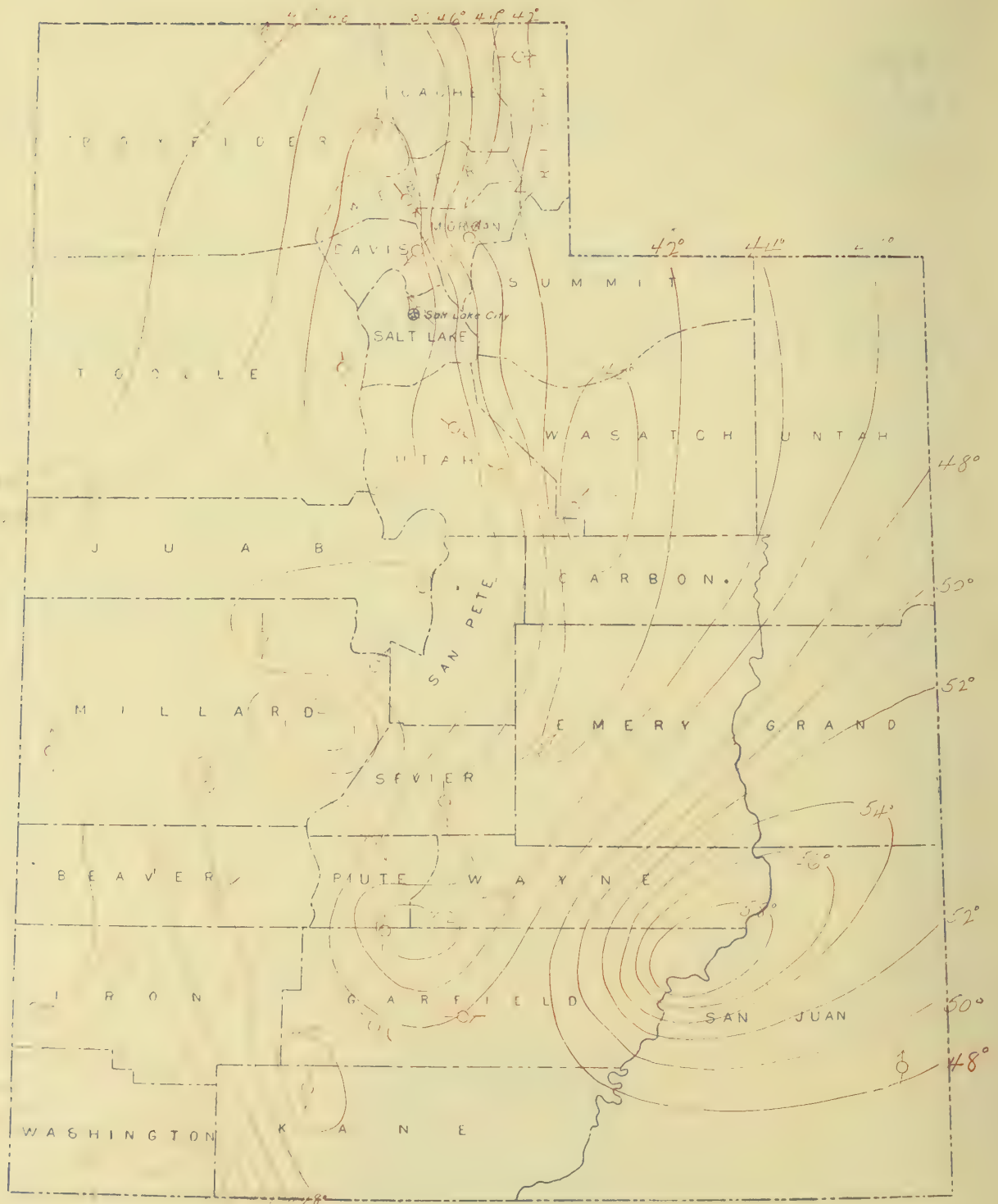
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MARCH 12, 1905

MONTHLY MEAN ISOTHERMS AND WINDS FOR THE YEAR 1904.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.
SALT LAKE CITY, UTAH.

ANNUAL SUMMARY No. 7

THE WEATHER DURING THE YEAR 1904.

The weather during the year presented two remarkable features that serve to distinguish it from that of former years. The first in chronological order was the excessive amount of snowfall that fell over the northern half of the state during the winter of 1903-1904; an amount that was far in excess of the normal, and possibly the largest that ever fell over that portion of the state during one season for many years. The other remarkable feature, oddly enough, was the reverse condition of extreme dryness that prevailed during the latter part of the year. From the middle of October to nearly the middle of December, a drought of extraordinary intensity and duration prevailed over the entire state. Other droughts have indeed occurred of perhaps even longer duration, but they bore more or less a local character. At no time in the history of the Weather Bureau was the entire state under the influence of extreme dryness to such an extent as has been the case during the present autumn. The other noteworthy features of the weather during the year were the heavy rains that prevailed during May, that were of great and far-reaching benefit and that in all likelihood saved the crops in the southern half of the state from impending failure; and the remarkably cold spell that overspread the state from the 21st to the 23rd of August, when in the more elevated districts temperatures fell considerably below the freezing point with accompanying frosts that damaged vegetation considerably.

The winter months exhibited, aside from the excessive snowfall previously mentioned, and which was confined to the northern half of the state, nothing very remarkable. The usual wintry weather with its alternate periods of freezing and thawing occurred, but the cold spells, with one or two exceptions, were not remarkable for severity. On the 10th of February a cold wave reached its culmination, when over extensive areas zero temperatures were recorded, the mercury in many instances falling to over 20° below zero. This was the coldest period of the winter. In general, however, temperatures during January were slightly below the normal, while in February, they were decidedly, and in March slightly, above average. As regards precipitation, conditions over the southern part of the state were the reverse of those existing over the northern portion. There the weather was characterized by extreme dryness, calling forth conditions that caused grave anxiety for the growing season.

During the spring normal conditions generally prevailed, the only unpleasant feature of the season being a severe snowstorm that swept over the state during the last decade of April. Precipitation during April and June did not vary much from the normal amount, and this was also the case with the temperature during the first two months of the spring season. June was, however, somewhat colder than the average. The particularly beneficial feature of the spring was, however, the heavy rains that fell during May, as has already been observed. These rains were particularly heavy over the southern portion of the state where they were mostly needed and opportune, relieving the droughty conditions that had heretofore prevailed over that region. These rains thoroughly soaked the ground, replenished the supply of irrigation water, which had been entirely inadequate to meet the demands made upon it, and in general converted what had appeared to be an impending crop failure into at least a measure of success.

During the summer months of July and August the state was visited by numerous thunderstorms that contrasted markedly with the settled weather that usually characterizes this season of the year. These thunderstorms were in many instances accompanied by high winds, cloudbursts and hail that damaged vegetation considerably locally. Mention has already been made of the severe

cold spell that prevailed during the last decade of August. Temperatures during these two months were in general below the average. September was marked by exceptionally fine weather. Clear skies generally prevailed and no precipitation of any amount occurred until the last decade when during a period of cloudy, unsettled weather, almost the entire precipitation of the month fell, which was, however, decidedly below the normal amount.

The autumn was, as has already been briefly related, characterized by clear skies and almost entire lack of precipitation. During the middle of October stormy weather prevailed, which reached its climax on the 16th when a severe storm passed over the northern half of the state. Beginning as rain, the precipitation, under the influence of the constantly falling temperatures, changed to snow. From this time on to about the middle of December scarcely a drop of precipitation fell over the entire state. During this period, the sky was generally free from even the merest speck of a cloud, and the ground, with the increasing dryness, took on the character of fine flour. The atmosphere was rendered turbid by the dust that the slightest breeze would waft into it. This long-continued drought was in a measure broken by the stormy conditions that prevailed over the middle and northern portions of the state from the 12th to the end of December, but the fall of snow was hardly sufficient to thoroughly relieve the dryness of the soil, and moisture is imperatively needed over the southern part of the state.

CONDITION AND YIELD OF CROPS DURING THE YEAR 1904.

The crops of the state, dependent as they are almost exclusively on the vagaries of the weather and the consequent condition of the soil, reflected in their condition, growth and yield the various changes, both beneficial and injurious, that took place in the weather during the year. The growing season over the northern half started out under the most favorable auspices. The ground was well soaked, a liberal supply of irrigation water was assured even before the winter season was well advanced, and all indications pointed to large yields of all kinds, especially of fall grain. These prospects were afterwards abundantly realized. Never had the state been blessed with such large crops of these staples. On arid farms, owing to the abundant moisture and the depth to which the ground had been soaked, the yields were extraordinarily large and of good quality. Over the southern portion, owing to the dry weather, prospects were indeed gloomy. The ground was dry and irrigation water scarce; ranges, too, were in bad condition. This state of affairs was relieved to some extent during March, but was not effectually abated until May when, under the influence of heavy rains, the ground was thoroughly drenched and the reservoirs and ditches filled with the vitalizing liquid that was to prove the salvation of the crops. Fall and early-sown spring wheat began to head out toward the close of June, and harvesting was under rapid headway during the following month. By the close of August, fall grain had been practically all threshed, and during the following month this work had been completed on the spring cereals. The favorable results of the season's growth have already been stated. Two large crops of lucerne were secured, and a fair third crop harvested. Tomatoes, potatoes and other vegetables suffered considerable injury from the frosts during the latter part of August, but notwithstanding fair yields were realized. The yield of sugar beets was far above the average, both in quality and quantity. Fruit in spite of some drawbacks yielded well, especially apples. The wool clip during the spring was satisfactory and stock, owing to the splendid condition of the range thrived throughout the whole season and approached the winter in fine condition. During the early fall conditions were exceptionally favorable for the pursuit of farming operations. Clear weather generally prevailed, except during the middle of October when generous rains placed the soil in fine condition for plowing. Unfortunately these favorable conditions did not continue, for during the long drought that subsequently prevailed and of which special mention has been made elsewhere, even the early-sown wheat which had already germinated and come up in localities to good stands, suffered severely from the deteriorating influence of the extreme dryness. The late-sown wheat, however, was still lying in the ground dormant for the lack of moisture. What effect the late snows will have on the seed is, as yet, too early to conjecture. Altogether, the prospects are not bright for the coming season. It is, however, too early to forecast for the growing season of 1905 and all can yet be retrieved by a generous fall of snow during the remainder of the winter.

The following extracts from the monthly Climate and Crop Bulletins give in brief the condition of crops at the close of each month:

January—No farm work was done during the month except the caring for stock. The northern half of the section was covered with deep snow, and wheat had not been in better condition in mid-win-

ter for several years. The ground was not frozen very deep, and it was well filled with moisture. The southern half of the state was only thinly clad with snow, many valleys being bare. The scanty snow covering permitted the ground to freeze several inches deep, and afforded but little protection to the wheat. Very little winter wheat is grown in the middle and southern portions of the state, the wheat district being confined to the northern portion. Stock were being fed and were wintering well. Feed was reported scarce nearly everywhere. The range afforded practically no feed owing to the drought over the southern portion of the state, and to the deep snow over the middle and northern portions.

February—The warm weather of the latter part of the month caused the snow to disappear rapidly, and by the close of the month the valleys and plains were entirely bare excepting over the extreme northern part of the section; the frost, too, was almost entirely out of the ground. Over the northern and upper middle portions the warm rains that fell during the last decade melted the snow too rapidly, and much of the water ran off and was wasted, the streams in many localities overflowing their banks. Most of the moisture, however, soaked into the ground, which was in consequence thoroughly saturated to a considerable depth. In the eastern and southern portions of the section the soil was in general dry and hard, seriously hampering the work of plowing. This work had begun, but was not under general headway. Winter grain is generally reported to be in fine condition. Stock was still being fed, but is in thriving condition and has withstood the winter well. Feed is becoming very scarce.

March—Active farming operations were begun and in many southern counties spring grain was coming up. Winter grain and the range were making fine showings. Water prospects were much improved generally by the March precipitation. In the north portion the absence of frost permitted the ground to become well saturated, but in the south irrigation was necessary before the ground could be worked. Stock wintered well. Sheep were being sheared during the latter part of the month.

April—Farm work was rather backward until the last week of the month, when favorable weather enabled rapid progress to be made, and by the close the seeding of spring wheat was well advanced and in many localities completed. Beet planting was also under rapid headway. Fall wheat was looking well and coming up to good stands. Lucerne suffered some damage from the frosts, and a few fields were found to be winter-killed. On the whole, however, this staple was in good condition, and indications pointed to a large crop. Fruits, with the exception of apricots, were in good condition, and suffered little injury from frosts. Ranges were good, and stock was thriving. Sheep shearing was in progress at the close of the month, and the clip was satisfactory.

May—Much field work was done during the month under favorable weather conditions, except during the first week, when the steady cold rains caused a temporary cessation. Following this period the temperature rose, and, under the influence of bright sunshine, every kind of vegetation made rapid advancement. Occasional frosts were reported from scattered localities, immediately after the heavy rains, but little injury resulted therefrom. Grain and lucerne were looking well. Gardens were doing well, and many vegetables were being marketed. Beets were thrifty and thinning was in progress. Fruit was generally well advanced and beyond danger from frost. In a few protected orchards in the southern counties, cherries were ripening. The range was being extensively pastured and continued to furnish plenty of feed. Sheep shearing was mainly completed during the month under favorable conditions, and the wool clip was generally good.

June—Under the influence of the generally favorable weather during the month, crops made rapid advancement, and by the close fall and early-sown spring wheat were heading out. Harvesting was a matter of the near future, and had indeed already begun in the extreme southern part of the section. The stands were generally good, and all indications pointed to large yields. Rye, oats and barley were in good condition. Corn had been in thriving condition until near the close of the month, when the crop suffered considerable deterioration from the harmful effects of the severe cold snap that occurred. The first crop of alfalfa had been secured in good condition, with yields generally above the average. The second crop was in thriving condition and making rapid growth. Fruit suffered somewhat from the short cold spell, but was recovering rapidly, and prospects were promising, especially for apples. Beets and gardens were doing well. New potatoes were being marketed. Ranges were in excellent condition, and stock was in consequence thriving. Notwithstanding the demands made upon the store of irrigation water, the supply was holding out well.

July—The opening days of the month were marked by a general, severe thunderstorm period, during which considerable widespread devastation occurred. Heavy wind, rain and hail were the causes of much injury to grain fields and fruit orchards. However, the precipitation was very helpful, and during the middle decade clear skies and high temperatures gave all growing crops a noteworthy impetus. Thunderstorms, accompanied by hail and high wind, occurred in scattered localities about the 15th, but the damage was slight. The warmest weather occurred about the beginning of the third decade, when haying and harvesting had reached their height. Heavy thunderstorms were again frequent toward the close of the month, and wind wrought havoc in hay and grain fields; hail beat up green crops considerably and shattered out ripe grain; and water caused additional damage by washing and flooding. Immediately following this storm period, temperatures took a sudden drop, and the freezing point was reached in many localities. Fortunately, all crops were practically beyond danger, and no decided injury resulted.

Every crop in the section made rapid progress during the month notwithstanding the retarding effects of the frequent storms. The fine, warm weather between the rains hastened the harvest of grain and made invigorating growths in lucerne, beets, corn, potatoes and tomatoes. Much fruit was blown from the trees early in the month, but at the close of July early apples of a splendid quality were on the markets in abundance. Lucerne was cut the first time early in the month; fall grain was harvested toward the middle of the month, and during the last decade threshing had begun in quite a general way, and spring grain was nearing harvest, with indication for excellent yields. Lucerne was cut the second time, with a crop equal to the first in every respect. July closed with the third growth of hay showing up well. Grain yields were far above the average, practically without exception, especially on arid farms where surprising returns were made, many reputable estimators placing the yield of wheat on arid farms at 15 bushels per acre. Beets were in a very thriving condition, and as a rule water was plentiful for the future needs of the crop; the prospects are for crop as good or better than last year. Corn tasseled and silked early, and at the close of the month many fields were furnishing roasting ears for table use. Potatoes were setting well and were in fine condition. Apricots, peaches and early apples of a good quality were plentiful. The berry season culminated about the beginning of the second decade; much of this fruit was saved in fine condition. Pastures were green throughout the month. The rain coming at very favorable intervals, were quite favorable to pasture, and stock has done well.

August—The inclemency of the weather during the month impeded all farm work considerably. Harvesting proceeded under great difficulties, but was pushed as rapidly as circumstances would allow, and by the close of the month fall grain was practically all threshed, with spring grain nearly all cut and threshing under rapid headway. Yields were generally above the average, especially arid land grain, the quantity and quality of which were above all expectations. Corn made satisfactory advancement, was silking and tassel and furnishing large quantities of roasting ears to the local markets; the crop was in thriving condition and promised well. Lucerne seed, tomatoes, potatoes and all other vegetables suffered severely from the frosts of the 21st-22nd; many potato vines were killed, but the chief damage appears to have resulted to the tomato crop, which unfortunately at the time happened to be at a critical stage of its growth. At the close of the month the canning of the last-named crop was proceeding as fast as the vegetable was ripe enough to pick. The third crop of lucerne was maturing and being gathered, though the work was hampered by the prevailing weather, particularly in the southern portion of the section. The staple was making a good growth and promised large yields. Beets were maturing rapidly and were in splendid condition. All indications pointed to a very good crop, both in quality and quantity. Fruit was generally good and plentiful, especially apples. The precipitation during the month, though delaying farm work considerably and damaging hay in stack to some extent, was nevertheless of great benefit to all plant growth. The ranges were revived, and at the close of the month were in prime condition and affording ample sustenance to stock, which was thriving.

September—The fair, warm weather during the greater portion of the month permitted the gathering of practically all crops, except beets and potatoes. Fall seeding was pushed, and the close of September found all farm work quite well advanced, especially the sowing of small grain. The copious showers during the last decade proved helpful to the recently sown grain, though the cold weather following the rains delayed germination. Threshing was generally completed. The yields of grain from arid farms surpassed all estimates in every respect. The second crop of lucerne

(Continued on page 6)

CLIMATOLOGICAL DATA FOR YEAR 1904

Stations.	Counties.	Elevation, feet.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.										Sky.				Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
NORTHERN.																						
Alpine.	Utah.	4,900						8	19.72	5.15	Mar.	.00	Nov.	127.5	41							
Blacksmiths Fork.	Cache.									12.87	Aug.	.00	Nov.	127.5	41							
Blue Creek.	Box Elder.	4,387	34		81	May 21	-7	Jan. 15*	34		1.15	Mar.	.30	Apr.	115.5	32	1158	49	96	s. w.		
Castle Rock.	Summit.									2.52	Aug.	.00	Nov.	127.5	41							
Corinne.	Box Elder.	4,240	31	50.3	105	July 20	-8	Jan. 25*	31	12.76	1.15	Mar.	.00	Nov.	12.0	44	189	28	119	n. w.		
Evansville, Wyo.	Utah.	6,959	9	40.4	87	Aug. 9	-20	Feb. 10*	9	13.69	2.88	May	.00	Nov.	35.6	71	245	79	42	n. e.		
Farmington.	Davis.	4,267	4	48.8	96	July 21*	-1	Dec. 27*	4	22.79	5.26	Mar.	.00	Nov.	96.6	66	181	497	181	n. w.		
Fr. Duchesne.	Utah.	5,000	16		97	July 11*	-9	Dec. 27	16		12.78	May	.00	Nov.	46.9	149	224	178	662	w. w.		
Heber.	Wasatch.	5,606	11	43.9	93	July 19*	-24	Dec. 27	11	16.74	3.18	Mar.	.00	Nov.	67.5	79	195	177	491	s. w.		
Henefer.	Summit.	5,301	5	44.1	94	July 20*	-26	Feb. 10	5	18.55	4.61	Mar.	.00	Nov.	68.9	106	179	94	13	w. w.		
Huntsville.	Weber.	5,100							9	21.17	6.43	Mar.	T	Nov.	81.0	59	175	12	79	n. w.		
Kelton.	Box Elder.	4,230	26		99	Aug. 5	-6	Dec. 27	26		3.70	Feb.	.00	Nov.	132.1	116	177	178	148			
Logan.	Cache.	4,507	13	48.8	95	July 20*	12	Dec. 27	13	13.52	3.13	Mar.	.00	Nov.	112.3	53						
Meadowville.	Rich.	6,230	5	42.6	88	June 30*	-9	Dec. 27	5	18.00	4.70	Feb.	.05	Nov.	59.0	77	225	40	101	w.		
Milville.	Cache.	4,818							9	16.29	4.02	Mar.	.01	Nov.	111.6	86						
Morgan.	Morgan.	4,280	1	44.2	91	July 20*	-15	Dec. 27	1	19.70	5.07	Mar.	.00	Nov.	59.6	78	232	180	147	s. w.		
Oakley, Idaho.	Cassia.	4,191	11	48.2	98	July 10	0	Dec. 27	11	9.80	2.30	Mar.	.00	Nov.	18.5	36	166	111	83	s. w.		
Ogden No. 1.	Weber.	4,310	3	50.6	97	July 20	0	Dec. 27	3	19.53	6.54	Mar.	.00	Nov.	55.6	70	217	179	168	n. w.		
Ogden No. 2.	Weber.	4,310	34	52.1	97	Aug. 12*	4	Dec. 27	34		5.57	Mar.	T	S	12.0	148	186	127	122	e.		
Park City.	Summit.	6,846	7		84	May 17*	-2	Feb. 10	7	7.85	Mar.	1.69	Apr.	161.4	157							
Pocatello, Idaho.	Bannock.	4,488	4	48.8	96	July 22	-11	Dec. 27	4	12.53	4.00	Mar.	.02	Nov.	52.6	100	13	157	71	e.		
Promontory.	Box Elder.	4,913	34		100	July 26	-15	Dec. 27*	34		1.01	Aug.	.03	Nov.	13.0	116	214	12	10	n. w.		
Randolph.	Rich.	6,442									1.65	Dec.	.00	Nov.	14.0	127	148	137	129	s. w.		
Saltair Beach.	Salt Lake.		1	51.2	94	July 21	2	Dec. 27	1	12.94	2.73	Mar.	.00	Nov.	32.8	66						
Salt Lake City.	Salt Lake.	4,266	30	51.8	97	July 20	6	Feb. 10	30	16.31	3.99	Mar.	.00	Nov.	66.9	91	160	104	102	s. e.		
Snowville.	Box Elder.	4,360	14	45.3	98	Aug. 4	-18	Dec. 27	14	14.50	4.35	Mar.	T	Nov.	33.0	62	177	128	61	s.		
Torrance.	Box Elder.	4,550	34		102	July 21	0	Jan. 26	34		.60	Mar.	.07	May	10.7	117	179	118	147	n. w.		
Tooele.	Tooele.	4,900	8	50.8	94	July 20	5	Dec. 27*	8	18.13	4.25	Mar.	.00	Nov.	128.2	64	211	78	77	s.		
Weston, Idaho.	Oneida.	4,460	6		95	Aug. 6	-22	Dec. 27	6	15.82	4.28	Mar.	.08	Nov.	51.0					s.		
Woodruff.	Rich.	6,500	7		92	Aug. 8*	-21	Feb. 9	7		2.65	Mar.	T	Nov.	126.0	113	159	187	181	w.		
Averages.				48.0						17.38					55.2	68	195	75	96	s.		
MIDDLE.																						
Black Rock.	Millard.	4,872	4	47.6	92	July 19	-14	Dec. 27	4	6.39	1.64	May	.00	Nov.	24.3	38	186	121	59	s.		
Callao.	Juab.		2	49.0	97	July 21*	-6	Dec. 27	2	7.77	1.52	June	.00	Nov.	32.8	31	151	126	89	s.		
Castle Dale.	Emery.	5,500	5		92	July 8	-12	Dec. 27	5		1.35	Oct.	.00	Nov.	12.8	131	1208	152	42			
Deseret.	Grand.	4,385	12		106	July 26	-3	Jan. 27	12		1.33	May	.00	Nov.	18.0	121	1192	112	118	w.		
Emery.	Millard.	4,541	10	47.6	99	July 20	-16	Dec. 27	10	7.14	2.13	May	.00	Nov.	29.5	33	201	64	11	s. w.		
Fillmore.	Emery.	6,260	4	42.2	83	Aug. 6	-4	Jan. 7	4	4.88	1.30	June	.00	Nov.	4.0	11	73	139	154	s. w.		
Fillmore.	Millard.	5,160	14	53.2	105	July 20	-7	Dec. 27	14	12.14	2.81	May	.00	Nov.	18.9	46						
Harrison.	Millard.		1	49.1	100	July 20	0	Jan. 9*	1	7.21	1.49	Feb.	.00	Nov.	14.4	38	1216	180	153	s.		
Government Creek.	Tooele.	5,277	4	48.8	96	July 20*	-6	Jan. 21	4	15.37	4.94	Mar.	T	Nov.	59.2	51	206	88	72	s. e.		
Grand Junction, Colo.	Mesa.	4,608	13	52.9	98	July 19	-1	Dec. 28	13	6.63	1.39	May	.00	Nov.	14.3	62	169	153	41	s. e.		
Green River.	Emery.	4,080	7		109	July 25	-7	Jan. 31	7		.97	May	.00	Nov.	12.5	119	143	162	170			
Hamah.	Tooele.			45.1	94	July 19*	-13	Jan. 6		10.72	1.81	May	.00	Nov.	40.9	41	1151	1119	143			
Indianola.	San Pete.	5,932									1.04	July	.03	Aug.	120							
Juan.	Juab.	5,010	14	47.0	94	July 20	-11	Dec. 27	14	16.28	3.25	Mar.	.00	Nov.	66.8	69	208	83	75	s. w.		
Kani.	San Pete.	5,575	10	46.6	95	July 20	-15	Dec. 27	10	11.20	2.03	May	.00	Nov.	32.3	44	119	168	163			
Kani.	Utah.	4,650	3	49.9	96	July 20	-9	Jan. 26	3	10.34	2.83	Mar.	.00	Nov.	29.2	68	219	104	43	n.		
Kani.	San Pete.	5,859	12	48.2	96	July 20	-8	Dec. 26	12	13.70	2.20	Mar.	.00	Nov.	37.0	50	160	200	6			
Kani.	Juab.	6,059									1.10	Dec.	.00	Nov.	19.5	121	169	149	114			
Kani.	Utah.	4,637									2.41	May	.00	Nov.	74.9	117	1121	171	123	s. w.		
Kani.	Utah.	4,532	12	49.1	98	Aug. 6	-10	Jan. 26	12	15.32	3.75	Mar.	.00	Nov.	60.4	77	1168	156	111	n. w.		
Kani.	Sevier.	5,323	14	48.8	93	July 18	-13	Dec. 26	14	5.25	1.03	May	.00	Nov.	77.5	76	1170	107	174	s. w.		
Kani.	Millard.	5,60	9	48.1	96	July 19*	-21	Dec. 26	9	12.58	3.21	Mar.	.00	Nov.	46.7	67	157	82	127	s. w.		
Kani.	Utah.	7,414	12	38.6	90	Aug. 7	-20	Dec. 22	12	13.37	2.98	Mar.	.00	Nov.	73.3	73	1170	185	167	s. w.		
Kani.	Utah.	5,075	12	47.7	105	July 26	-20	Dec. 26*	12		2.65	May	.00	Nov.	45.0	52	248	22	96	n. w.		
Kani.	Carbon.	5,540	5		98	Aug. 6	-8	Feb. 9	5		1.66	May	T	Sep.	14.5	124	160	144	139			
Averages.				47.5						10.60					36.9	49	181	103	82			
SOUTHERN.																						
Kani.	San Juan.	4,800	4		102	Aug. 28	-2	Jan. 26	4		.62	May	.00	Nov.	1.5	122	1237	195	133			
Kani.	Beaver.				89	Sep. 11	-9	Dec. 27			1.13	Aug.	.00	Nov.	14.0	17						
Kani.	Garfield.		3	41.3	86	Sep. 7	-18	Dec. 27	3	5.06	2.30	June	.00	Nov.	9.7	25	1200	131	1128	s.		
Kani.	Garfield.	5,700	4		98	July 15	-5	Jan. 29	4		2.58	Aug.	.10	Jan.	2.0	137	1129	137	168	w.		
Kani.	Washington.				108	July 19	9	Dec. 27														
Kani.	Beaver.	7,318	10	51.3	99	July 26	2	Dec. 27	10	7.58	2.49	May	.00	Nov.	9.2	51	1183	1112	168	n.		
Kani.	Wayne.	4,000	9	49.2	98	Aug. 5	-6	Jan. 26	9	5.73	1.28	Aug.	.00	Nov.	T	37	262	67	37			
Kani.	San Juan.	6,500																				
Kani.	Wayne.	5,800	8		86	July 20*	0	Feb. 9	8		.65											

MONTHLY AND ANNUAL MEAN TEMPERATURES FOR THE YEAR 1904, WITH DEPARTURES FROM THE NORMAL.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		A	
STATIONS.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	
Northern.																										
Alpine.....	24.4	-0.7	32.6	+2.5	39.2	-0.8	.....	.....	62.2	+0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blue Creek.....	19.6	-5.1	31.0	+1.3	38.3	+1.5	51.0	+0.6	57.6	-3.6	64.6	-6.8	75.6	-3.8	77.7	+3.3	64.2	-1.2	52.6	+1.1	39.8	+1.2	31.2	+2.3	5.0	
Corinne.....	16.9	-3.2	25.3	+4.8	27.8	+0.3	39.8	+1.8	46.6	0	52.4	-2.3	59.8	-2.0	60.2	-1.2	53.0	+0.1	43.5	+1.2	36.0	+3.8	24.0	+3.8	40.	
Evanston, Wyo.....	24.2	-4.2	33.6	+4.7	40.2	.....	48.6	.....	55.2	-2.3	62.0	.....	70.1	-2.9	70.2	.....	60.7	.....	49.9	-1.7	40.5	.....	30.0	+1.4	48.
Farmington.....	.....	.....	36.0	+17.9	40.4	+5.8	52.0	+4.1	58.2	+1.1	63.2	-2.7	70.5	-0.6	70.3	+0.8	59.9	-0.9	47.7	+0.9	32.6	+1.0	22.0	+3.1	.....
Ft. Duchesne.....	14.0	-7.4	28.6	+6.9	35.8	+3.3	45.1	+1.3	52.8	0	58.0	-1.6	64.4	-1.5	64.8	+0.1	56.6	+1.6	47.2	+2.3	37.4	+1.4	22.4	+0.2	43.	
Heber.....	16.3	-7.3	27.9	+6.5	34.9	.....	44.6	+1.8	52.2	+0.3	58.2	-1.8	64.7	+0.7	64.9	+1.1	56.8	+4.5	47.0	+2.4	37.1	.....	24.7	+0.3	44.
Honefer.....	23.4	+0.3	29.4	+0.4	.....	.....	.....	.....	55.0	-5.3	61.6	-8.8	70.6	-7.5	70.8	+4.5	58.1	-3.5	45.8	-2.0	33.6	-1.0	24.0	+4.5	.....
Kelton.....	22.0	-2.2	30.6	+6.0	36.5	+2.5	49.0	+2.4	54.6	-0.6	63.6	0	71.8	+1.0	71.4	+0.8	64.0	+3.2	52.6	+2.4	40.9	+3.2	28.0	+2.4	48.	
Lamar.....	10.4	-2.3	28.4	+8.8	30.0	.....	40.7	.....	50.3	+2.0	54.4	.....	63.0	-1.7	63.4	.....	54.9	.....	44.2	+0.2	35.2	.....	25.9	0.0	42.
Meadowville.....	16.3	.....	29.4	.....	35.6	.....	45.0	.....	52.7	.....	58.2	.....	64.8	.....	64.2	.....	57.1	.....	47.5	.....	35.8	.....	24.0	.....	44.
Morgan.....	28.1	-1.3	34.0	+3.2	36.6	-0.5	48.2	+1.9	53.4	-1.1	59.7	-4.0	65.8	-5.0	67.6	-2.2	61.2	+2.4	50.6	+1.0	43.8	+4.8	29.2	-0.7	48.	
Oakley, Idaho.....	24.0	.....	33.6	+6.2	39.0	.....	51.6	.....	58.7	+1.6	66.6	.....	73.6	+1.0	72.4	.....	64.3	.....	51.4	.....	42.0	.....	30.0	.....	50.
Ogden No. I.....	26.8	-1.7	35.3	+2.6	40.5	-0.7	47.6	-4.8	59.2	-2.6	70.2	-1.7	76.4	-2.9	78.2	+1.4	68.6	+3.0	53.2	+1.5	41.1	+1.8	28.4	-3.2	52.	
Ogden No. II.....	23.6	-2.1	31.6	+5.8	34.6	+5.4	45.2	+6.7	58.8	+3.7	.....	.....	.....	.....	60.9	-2.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Park City.....	25.6	+6.5	33.0	+10.0	31.9	+2.6	48.4	+1.6	55.7	+1.4	62.2	+0.2	68.9	-1.4	70.8	+1.2	62.2	+1.7	50.5	+2.5	42.1	+9.1	28.8	+2.8	48.	
Pocatello, Idaho.....	.....	.....	30.1	+8.1	35.5	-2.3	.....	.....	55.0	-2.9	61.0	-4.3	72.2	-5.1	69.4	-5.7	52.6	-10.6	.....	.....	44.4	+10.4	23.0	-3.1	.....
Promontory.....	23.4	.....	35.4	.....	40.5	.....	49.6	.....	59.1	.....	68.0	.....	74.7	.....	75.1	.....	66.5	.....	51.4	.....	39.7	.....	30.8	.....	51.
Saltair Beach.....	26.0	-1.9	35.9	+2.9	40.7	-0.9	50.4	+0.9	57.5	-0.3	66.2	-0.8	73.9	-1.6	74.2	-0.4	66.4	+2.1	53.1	+0.8	44.4	+4.6	33.8	+0.3	51.	
Salt Lake City.....	20.2	-4.0	27.8	+1.9	35.6	0	46.2	0	52.2	-3.5	59.9	-2.0	66.6	-2.5	67.6	-0.4	59.1	+0.8	48.0	-0.1	37.0	-0.6	23.0	-2.3	45.	
Snowville.....	21.6	-1.3	32.5	+3.3	37.4	-3.1	51.2	+0.8	56.9	-3.8	65.1	-7.1	72.0	-8.4	70.6	-6.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Terrace.....	28.0	-1.2	36.1	+4.8	39.6	+1.1	49.1	+0.6	58.2	+2.1	64.2	-3.0	71.8	-1.9	71.4	-2.4	65.6	+1.9	51.5	+1.1	42.4	+2.3	31.5	+1.5	50.	
Tooele.....	19.0	-7.4	28.0	+2.0	34.6	-1.3	47.2	+0.6	.....	.....	60.4	-1.3	66.1	-1.9	67.1	-0.1	59.6	+1.9	.....	.....	38.4	+1.8	25.2	+0.6	.....
Weston, Idaho.....	13.0	.....	25.8	+9.6	30.0	+3.1	43.4	+5.2	50.5	+3.2	54.5	-1.4	60.6	-0.3	61.9	+1.6	55.0	+3.9	43.0	+2.9	34.4	+3.3	.....	.....	.....
Woodruff.....																										
Middle																										
Black Rock.....	22.7	-4.3	35.4	+9.0	42.4	.....	47.8	.....	56.0	-0.4	62.4	.....	67.0	-2.4	67.9	.....	58.1	.....	46.0	.....	37.4	.....	27.5	+0.8	47.
Callao.....	35.4	.....	36.8	.....	42.4	.....	47.7	.....	56.8	.....	64.2	.....	70.3	.....	69.4	.....	62.6	.....	49.0	.....	35.7	.....	27.4	.....	49.
Castle Dale.....	17.7	-9.1	.....	.....	39.3	.....	44.8	-0.5	52.2	-2.3	58.2	-7.2	65.8	-3.4	64.4	-4.0	57.4	-1.7	45.6	-3.2	33.6	.....	22.8	-0.1	.....
Cisco.....	21.4	-3.5	37.2	+8.4	46.0	+4.6	54.9	+1.9	64.6	+2.1	73.4	+1.5	79.5	-0.5	78.5	-1.1	69.1	+2.4	51.0	-2.0	35.9	-3.5	26.7	+1.5	47.	
Deseret.....	21.2	-5.8	37.0	+6.3	40.2	+0.4	48.1	+0.5	54.6	+2.9	62.8	-3.4	70.2	-1.8	70.1	-1.3	57.0	-3.4	46.8	-2.9	37.8	+0.5	26.7	+1.5	47.	
Emery.....	22.6	-4.6	33.0	+6.0	34.8	.....	42.4	.....	49.4	-1.9	56.2	.....	61.2	.....	60.2	.....	52.1	.....	39.0	.....	33.6	.....	22.4	.....	42.
Fillmore.....	26.6	-2.4	37.8	+6.4	42.4	+2.6	50.8	+1.6	58.4	+0.6	66.8	-1.3	76.2	+1.4	75.0	+0.5	67.1	+2.1	54.4	+2.2	48.9	+8.0	34.2	+4.8	53.	
Garrison.....	25.8	.....	38.4	.....	42.3	.....	48.6	.....	56.6	.....	63.5	.....	71.1	.....	69.9	.....	62.2	.....	47.6	.....	41.0	.....	31.8	.....	49.
Gov't Creek.....	24.1	-3.5	33.7	+5.8	38.9	.....	47.0	.....	53.2	-2.2	62.5	.....	71.2	.....	71.9	.....	62.4	.....	49.0	.....	42.1	.....	29.8	+0.6	48.
Grand Junc. Colo.....	25.4	-1.6	37.7	+6.4	44.9	+2.1	54.8	+1.6	61.8	+0.2	69.2	-2.6	76.3	-1.5	75.2	-0.4	67.8	+0.6	53.3	+0.5	39.6	-0.5	28.6	+0.9	52.	
Green River.....	20.9	-6.1	32.0	+2.4	.....	.....	.....	.....	63.8	-1.2	72.5	-2.1	79.0	-0.6	76.2	-0.9	.....	.....	43.3	-5.6	29.8	+5.8	.....	.....	.....
Ibapah.....	22.8	.....	31.8	.....	37.4	.....	43.8	.....	51.6	.....	58.7	.....	65.0	.....	66.2	.....	56.6	.....	44.6	.....	36.8	.....	26.4	.....	45.
Levan.....	19.2	-4.7	32.4	+5.5	38.0	+2.4	46.4	+0.1	53.8	-1.8	61.0	-3.5	69.6	-2.1	69.6	-0.7	61.0	+0.6	47.4	0	39.4	+2.7	26.6	+1.4	47.	
Manti.....	20.0	-5.6	33.2	+6.8	39.1	+1.7	45.8	-2.2	53.3	-5.9	60.2	-7.0	68.4	-3.0	68.7	-1.8	59.6	-1.9	46.9	-3.4	40.5	+4.1	23.6	-2.4	46.	
Mt. Nebo.....	20.7	.....	33.9	+8.0	41.1	.....	49.1	.....	57.3	+1.0	64.4	.....	72.4	.....	72.9	.....	64.2	.....	50.2	.....	42.3	.....	30.8	.....	49.
Mt. Pleasant.....	21.4	-6.4	32.8	+3.5	38.4	+1.7	47.1	-0.1	54.4	-1.0	62.2	-2.8	70.3	-2.0	70.4	-1.4	62.2	+0.2	48.9	-1.7	41.8	+2.5	28.0	+0.7	48.	
Provo.....	19.7	-6.9	33.2	+3.9	40.8	+1.5	50.0	+0.9	57.9	-0.1	62.2	-2.5	69.8	-3.4	70.4	-0.3	62.1	+2.3	50.8	+2.1	42.4	+4.0	29.8	+0.6	49.	
Richfield.....	24.4	-1.3	39.4	+8.9	41.8	+2.4	47.7	+1.3	56.4	-1.2	63.7	-0.4	68.6	-2.4	67.5	-0.1	61.1	+2.9	48.6	+0.9	40.3	+2.5	26.4	-2.3	48.	
Scio.....	19.4	-7.0	36.0	+6.9	40.3	+3.7	48.1	+1.9	55.1	+1.3	62.6	-2.1	70.2	-0.4	68.4	-1.0	60.2	+0.5	48.6	+1.1	39.0	+1.6	29.4	+3.7	48.	
Soldier Summit.....	15.6	-2.9	24.4	+3.0	27.3	-0.6	39.6	-1.4	46.2	-1.2	51.4	-4.2	60.0	-2.5	56.4	-4.2	51.4	+0.4	40.6	-0.4	32.5	+4.7	18.0	+0.4	38.	
Thistle.....	19.0	-6.8	32.2	+3.7	38.0	+1.1	50.0	+2.8	57.2	+2.4	61.2	-1.9	71.0	+0.3	71.2	+1.9	63.8	+6.2	46.6	-1.1	37.0	+0.1	24.8	-1.0	47.	
Wellington.....	20.9	.....	31.2	+7.3	36.7	.....	.....	.....	56.8	+0.4	64.0	-1.3	69.7	+0.7	68.9	+0.3	60.4	.....	47.4	.....	.....	.....	.....	.....	.....
Southern.																										
Aneth.....	26.6	-6.6	41.8	+6.9	47.3	.....	55.0	.....	63.3	+1.7	71.4	.....	77.6	.....	.....	.....	59.1	.....	53.5	-2.7	40.0	-3.5	31.5	+0.9	.....
Beaver.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.										

MONTHLY MAXIMUM TEMPERATURES FOR THE YEAR 1904, WITH DATES.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
Northern.																								
Blue Creek	45	*1	48	29	52	17			81	21														
Corinne	45	*16	61	15	65	7	86	16	86	18	96	29	101	20	102	6	96	8	85	*4	69	9	58	*3
Evanston, Wyo.	42	17	49	24	49	7	70	12	72	18	80	29	86	20	87	6	85	1	85	1	62	3	51	39
Farmington	45	18	60	27	61	8	76	14	85	*19	92	*14	96	*21	93	9	85	8	73	5	61	2	51	39
Ft. Duchesne			65	*25	82	19	84	27	90	13	92	28	97	*11	95	*5	92	8	85	1	62	3	51	39
Heber	44	16	56	*13	62	19	78	*13	84	14	88	29	93	*19	92	*5	90	*7	89	5	66	2	54	2
Henefer	46	15	60	*14	61	7	77	13	80	17	89	29	94	*10	93	6	90	*7	89	5	66	2	54	2
Kelton	47	11	51	*29					80	13	82	17	89	19	94	*10	93	6	90	*7	81	5	67	2
Logan	47	18	58	*22	60	7	90	13	77	*18	87	30	95	20	95	6	93	8	80	5	62	2	56	31
Meadowville	39	*15	52	*13	49	7	69	26	75	18	88	30	87	20	88	9	93	6	74	5	58	22	49	*20
Morgan	46	18	55	*14	61	7	77	12	80	17	87	29	91	*20	91	6	87	*7	85	10	63	*3	49	22
Oakley, Idaho	48	31	60	24	64	6	83	13	81	17	94	29	98	10	96	15	94	8	79	15	65	5	54	18
Ogden No. 1	46	18	62	24	60	7	79	13	82	17	91	29	97	20	93	6	85	*7	77	5	62	2	48	30
Ogden No. 11	42	1	60	24	63	7	78	13	80	*22	91	29	96	*20	97	*12	90	8	74	3	65	9	55	30
Pack City	46	15	55	25	59	19	80	13	84	*17														
Pocatello, Idaho	49	17	55	22	56	7	80	13	78	22	91	29	96	22	93	6	92	8	80	5	63	4	50	30
Primm			51	26	58	8	78	13	82	23	95	29	100	26	98	*7	83	6	71	11	62	1	55	9
Saltair Beach	49	18	66	*24	60	*6	75	26	82	17	87	*15	94	21	93	5	88	11	74	5	59	2	54	31
Salt Lake City	48	17	66	24	63	6	78	14	83	17	92	29	97	20	94	9	92	8	83	5	66	1	55	21
Snowville	46	13	53	*15	59	7	79	*13	80	29	91	*29	97	*19	98	4	92	*6	80	*4	70	1	52	30
Terrace	42	30	60	26	61	*6	82	13	86	22	95	30	102	21	100	6								
Tooele	49	*12	63	24	63	19	79	14	83	17	90	29	94	20	93	9	87	9	78	5	62	2	55	30
Weston, Idaho	44	16	55	26	60	7	80	13			88	*14	94	*20	95	6	92	7	72	28	68	2	55	1
Woodruff	44	17	65	16	55	9	75	14	85	13	90	29	90	22	92	*8	90	*8	74	4	66	1	57	1
Middle.																								
Black Rock	49	17	71	25	76	28	83	13	85	17	88	*18	92	19	90	5	85	8	79	5	65	*1	55	21
Callao	55	31	86	23	75	19	84	13	89	17	94	*18	97	*21	94	6	97	6	83	*4	70	3	59	18
Castle Dale	51	31			78	20	79	15	81	23	86	14	92	8	90	*5	86	*7	79	3	68	10	55	18
Cisco	46	19	71	24	74	19	85	14	94	18	100	29	106	26	103	7	95	6	78	*3	66	1	58	21
Deseret	52	16	71	24	70	*19	84	13	87	17	94	29	99	20	98	6	91	7	82	4	70	*1	58	21
Emery	47	31	67	25	65	*7	66	18	69	22	75	28	79	*17	83	6	74	*11	58	1	56	3	47	24
Fillmore	56	16	67	24	70	19	86	13	89	13	99	29	105	20	103	6	100	8	92	5	83	22	63	*1
Garrison	56	16	68	*22	71	19	82	13	87	17	93	29	100	20	98	6	91	8	80	5	67	*22	58	*1
Gov't Creek	45	*13	63	24	75	10	79	13	78	*24	89	29	96	*20	94	6	91	8	80	5	67	*22	58	*1
Grand Junc. Colo.	52	18	70	24	73	8	81	14	88	23	92	28	98	19	95	6	92	7	82	5	66	1	52	*1
Green River	50	*9	73	28	90	14			92	*24	99	28	109	25	102	7								
Idapah	55	31	64	*22	67	19	80	*13	86	17	90	9	94	*19	94	6	90	*8	80	5	70	*19	59	*1
Levan	45	16	58	*25	65	19	77	13	79	17	88	29	94	20	92	6	86	*8	77	5	60	*1	54	1
Manti	58	1	62	*25	65	20	78	*14	82	18	88	30	95	20	96	6	93	8	80	5	64	2	58	1
Mt. Nebo	47	16	64	25	67	19	80	14	83	17	94	29	96	20	93	7	90	*8	78	*4	68	7	58	1
Mt. Pleasant	45	16	64	27	65	19	78	13	82	23	89	*28	96	20	95	*6	90	*7	81	5	65	22	59	1
Provo	46	16	64	25	67	6	89	13	86	17	93	*18	96	20	95	*6	90	*7	81	5	65	22	59	1
Richfield	55	17	70	24	71	18	84	13	88	31	90	*27	93	18	92	*8	90	*7	84	5	71	23	54	1
Salt Lake	55	1	65	*24	78	19	81	*12	84	*17	93	13	96	*19	94	*8	92	*7	84	5	70	3	61	2
Soldier Summit	44	13	62	2	55	19	86	12	76	*17	83	28	88	19	90	*7	84	5	73	5	59	1	50	1
Thistle	50	*14	60	*23	70	19	87	14	95	17	97	28	105	26	102	6	96	*13	74	*2	70	1	57	8
Wellington	48	1	68	25	70	7			86	*17	96	22	97	*19	98	6	93	6	81	4				
Southern.																								
Aneth	54	18	77	24	75	2	85	13	90	18	96	19	100	18	102	28								
Beaver																								
Coyote	58	14	68	24	61	*7	72	17	85	14	80	20	84	18	88	6	89	11	85	5	67	9	57	1
Escalante	48	*15	69	25	69	20	82	14			91	22	98	15	90	7	86	7	70	5	69	28	56	30
Experiment Farm					78	19	91	*11	96	17	102	*13	108	19	104	6	102	7	93	4	77	9	65	1
Frisco	53	14	63	*23	67	14	78	12	85	23	93	27	99	26	96	6	89	5	77	*3	66	6	59	*14
Giles	45	*18	70	24	70	19	79	12	79	12	95	13	97	19	98	5	94	10	82	5	67	*1	61	10
Grayson																								
Grover (near)	52	8	69	27	69	2	75	*11			83	*13	86	*20										
Hite	55	*16	81	24	78	7	74	*12	94	*18	101	*19	105	18	104	14	100	8	91	*4	73	1	76	1
Kanab	54	*14	70	24	74	20	83	12	85	13	92	*13	97	19	92	*5	90	8	83	5	68	1	50	*1
La Sal																								
Lea	50	16	70	24	69	7	76	13	80	*17	90	*13	100	20	94	5	81	*7	74	5	60	1	50	*1
Lund	50	14	78	16	73	8	87	12	86	16	94	*19	94	18										
Marysville (near)	56	16	67	25	67	*6	79	*12	84	17	88	*19	92	26	89	*5	88	*6	81	5	72	22	58	1
Minersville	54	18	71	24																				

MONTHLY MINIMUM TEMPERATURES FOR THE YEAR 1904, WITH DATES.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
Northern.																								
Blue Creek	-7	*15	7	11	27	*3			40	2														
Corinne	-8	25	-2	10	14	12	26	7	30	7	39	*23	47	*14	43	21	37	10	27	18	16	*12	-8	26
Evanston, Wyo.	-8	25	-20	10	-6	3	18	7	22	8	24	25	33	30	27	21	24	29	20	25	9	11	-20	*27
Farmington	4	21	1	10	16	12	26	7	29	9	33	*12	37	16	36	21	33	28	26	19	20	13	1	*27
Ft. Duchesne			4	19	9	13	22	*7	25	8	37	*25	43	14	33	21	29	2	18	18	5	12	-9	27
Heber	-15	8	-20	10	10	12	18	7	23	8	30	25	36	14	27	22	26	28	17	18	10	*11	-24	27
Henefer	-19	28	-26	10	9	*12	19	8	22	8	29	25	34	14	25	22	24	29	15	31	5	12	-25	27
Kelton	2	*15	4	*1					26	7	36	8	42	*30	34	22	33	22	21	17	10	13	-6	27
Logan	0	28	-1	10	10	12	27	1	32	8	37	24	46	16	41	21	35	28	25	18	21	12	-12	27
Meadowville	2	23	2	14	6	3	19	1	26	8	29	25	36	30	32	22	30	*11	20	18	11	11	-9	27
Morgan	-16	28	-20	10	8	26	18	*3	25	8	30	25	34	30	29	*21	27	27	18	*18	8	13	-25	27
Oakley, Idaho.....	7	20	9	*9	19	22	81	*7	30	*1	26	13	36	*7	30	21	35	29	24	18	20	26	0	27
Ogden No. 1.....	5	28	5	10	17	24	27	7	31	8	38	24	45	16	43	21	40	27	25	18	24	*13	0	27
Ogden No. 11t.....	8	25	9	10	24	3	31	13	36	5	42	1	45	9	47	22	33	28	30	20	22	29	4	27
Park City.....	-1	25	-2	10	7	12	14	7	24	*7					34	21								
Pocatello, Idaho...	2	25	10	10	20	22	26	1	30	8	35	11	44	30	42	22	37	29	25	18	18	13	-11	27
Promontory.....			4	9	20	12	30	*1	35	*4	40	*6	55	12	43	22	30	28	20	18	5	29	-15	*27
Saltair Beach.....	3	*7	8	*2	22	12	30	7	43	2	49	5	57	*2	50	22	44	28	30	*18	21	13	2	27
Salt Lake City.....	7	21	6	10	19	12	30	7	36	8	44	12	51	16	46	22	38	28	28	18	26	24	7	27
Snowville	-13	25	-9	10	17	12	19	7	23	9	28	25	34	30	33	22	30	*2	21	*18	8	13	-18	27
Terrace	0	26	3	7	18	27	24	8	29	8	34	25	40	*2	36	22								
Tooele	8	*21	7	10	14	24	25	*1	38	26	38	*24	49	16	42	22	37	28	27	18	23	13	5	*27
Weston, Idaho.....	-12	25	-12	10	10	26	21	7			31	25	34	30	31	22	30	11	22	18	11	13	-22	27
Woodruff.....	-19	28	-21	9	-2	12	20	6	20	10	25	25	27	30	23	21	20	*26	12	29	0	11	-5	5
Middle.																								
Black Rock.....	-6	9	-7	10	11	24	20	7	29	*8	36	*25	39	3	34	22	28	27	16	18	5	12	-14	27
Callao	0	*25	-5	6	11	3	20	*7	27	9	31	26	36	2	32	22	32	3	15	18	8	*13	-6	27
Castle Dale.....	-11	26			2	26	14	7	23	*8	29	26	36	14	30	21	25	*26	14	18	1	*11	-12	27
Cisco	3	27	0	10	12	13	25	7	32	8	47	26	51	17	52	22	31	28	22	*9	5	13		
Deseret	-6	21	-10	10	11	24	19	*7	26	9	34	*5	42	4	29	22	27	27	10	18	3	14	-16	27
Emery	4	7	8	*6	11	12	15	23	15	1	35	6	43	*2	34	24	28	29	20	16	9	13	-2	27
Fillmore.....	1	21	2	10	14	24	23	7	32	8	33	25	49	*1	41	22	32	27	21	18	19	*13	-7	27
Garrison	0	9	0	*6	14	1	18	7	25	8	30	25	42	16	38	22	30	27	15	18	18	13	4	4
Gov't Creek.....	-6	21	1	10	5	24	21	7	26	8	33	26	40	16	39	21	31	19	21	18	18	13	-3	27
Grand Junc. Colo.	3	25	9	9	18	26	29	7	36	8	44	4	55	2	51	22	37	28	29	19	15	24	-1	28
Green River.....	-7	31	-4	10	20	5			34	2	44	8	50	17	39	19				7	*11	-4	4	27
Ibapah.....	-13	6	-4	18	11	22	14	7	20	8	25	26	32	15	26	22	25	26	15	18	5	13	-9	27
Levan	5	26	-2	10	15	24	23	*7	31	8	33	25	43	2	38	22	36	*26	21	18	15	20	-11	27
Manti	-12	26	-6	10	13	26	23	8	30	9	33	25	43	14	35	21	34	*26	19	18	14	11	-15	27
Mt. Nebo.....	9	26	-3	10	16	24	24	7	32	8	39	25	49	1	40	22	34	28	20	18	16	19	-4	27
Mt. Pleasant.....	-5	26	-2	10	12	24	15	20	29	7	33	24	46	12	41	21	33	26	21	17	18	10	-8	26
Provo.....	-10	26	-8	10	15	26	24	7	29	8	33	25	44	17	34	22	34	*26	23	18	17	*12	-6	27
Richfield.....	3	10	2	9	8	24	23	*6	28	7	34	24	41	15	34	21	28	26		9	10	-13	26	
Scipio.....	-17	*20	-15	9	12	23	18	*6	24	7	26	24	41	*13	29	21	28	*26	14	31	3	11	-21	26
Soldier Summit.....	-10	16	-19	10	-4	*12	11	7	18	*1	21	25	30	14	22	22	25	27	7	*19	3	11	-20	22
Thistle.....	-15	25	-16	9	3	25	23	*4	28	8	29	24	40	13	30	21	29	28	20	*17	8	12	-20	*26
Wellington.....	-4	25	-8	9	5	*12			29	8	36	*5	42	13	31	20	28	26	18	*29				
Southern.																								
Aneth.....	-2	26	7	1	14	13	25	1	34	3	44	5	48	18	55	29			27	19	11	13	6	28
Beaver															36	22	29	27	14	*18	12	14	-9	27
Coyote.....	-12	26	-13	10	0	24	14	24	21	8	28	*4	30	*9	31	23	20	27	7	19	2	12	-18	*27
Escalante.....	-5	29	2	10	17	*13	21	*1			40	9	41	18	47	31	33	29	24	21				
Experiment Farm.....					24	*24	27	*1	31	4	39	5	46	*16	46	31	31	26	17	18	15	12	9	27
Frisco.....	4	21	7	6	11	21	21	2	30	2	40	4	50	*1	47	22	36	*27	24	18	25	*12	2	27
Giles.....	-6	26	-3	10	8	13	25	10	31	9	40	6	47	*7	42	22	37	27	18	19	8	*11	-4	27
Grayson.....																								
Grover (near).....	3	26	0	9	10	24	20	1			38	2	39	29										
Ilite.....	11	26	18	1	20	20	33	1	41	3	51	6	60	*4	60	22	48	28	32	19	22	12	14	30
Kanab.....	25	20			10	22	14	21	16	2	36	8	39	4	44	28	26	27	18	31	11	12	1	27
La Sal.....											41	24	47	*6	44	21	27	27	16	17	13	10	-6	26
Loa.....	-12	21	0	*1	0	*24	10	24	25	*2	34	4	38	*3	38	22	20	28	15	*18	2	11	-14	27
Lund.....	-7	10	-10	*6	12	4	24	*21	32	*2	41	*6	45	*1										
Marysville (near).....	-4	26	-12	10	8	23	20	25	27	9	33	*5	39	*3	34	22	27	27	14	19	6	*11	-14	27
Minersville.....	-12	6	4	10																				

MONTHLY AND ANNUAL PRECIPITATION FOR THE YEAR 1904, WITH DEPARTURES FROM THE NORMAL.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
STATIONS.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northern.																										
Smith's Fork.	2.10	+0.87	0.82	-1.08	5.13	+3.97	3.02	+1.33	1.92	-0.45	1.33	+0.92	0.75	+0.21	1.02	0.00	0.40	-0.58	1.72	+0.49	0.00	1.62	1.33	+0.49	19.72	+4.52
Creek.	1.00	+0.03	1.12	+0.36	1.15	+0.75	0.30	-0.54	1.07	+0.24	1.10	+0.64	1.11	+0.89	0.61	+0.27	0.49	.....	.....	.....	0.00	.....	1.29	.....	.....	.....
Rock.	1.00	+0.27	1.14	+0.33	4.13	+2.90	0.59	-0.51	0.91	-0.27	0.49	+0.01	0.42	-0.04	2.52	.....	0.06	.....	1.03	.....	0.00	.....	1.50	.....	.....	.....
ston, Wyo.	0.3	-0.33	1.30	+0.25	2.60	+1.10	1.13	-0.20	2.82	+1.16	0.80	+0.13	0.47	-0.17	1.91	+1.19	0.05	-0.69	1.13	+0.03	0.00	-0.93	1.00	-0.49	12.70	-0.77
ngion.	1.1	+0.3	3.3	+1.30	5.20	+3.91	2.82	+0.34	3.05	+0.27	0.50	+0.27	0.80	+0.62	0.58	+0.16	0.03	-0.91	1.13	+0.03	0.00	-0.99	1.53	+1.06	13.60	+0.43
uchesne.	0.01	-0.45	1.11	+0.53	0.25	-0.30	2.78	+1.17	2.01	+0.42	0.10	-0.49	0.21	-0.16	0.60	+0.02	0.32	-0.91	1.22	+0.70	0.00	.....	1.57	+1.12	22.39	+3.97
er.	2.10	+0.08	3.00	+0.88	3.48	+1.33	0.90	-0.31	2.01	+0.42	0.73	+0.33	0.29	-0.88	0.88	+0.09	0.16	-0.94	1.23	+0.12	0.00	-1.65	1.91	+1.35	16.74	+2.21
ville.	2.03	+0.77	3.17	+1.18	4.61	.....	0.95	-0.53	2.57	+1.01	0.38	+0.16	0.53	+0.22	1.39	+0.67	0.06	-1.09	1.29	+0.13	0.00	.....	1.57	+1.33	18.55	+2.21
n.	1.48	-0.64	3.91	+1.80	6.43	+4.10	1.74	-0.03	1.88	-0.12	0.38	-0.44	0.36	+0.01	0.67	+0.14	0.19	-0.63	2.04	+0.37	T.	2.35	2.12	+0.50	21.17	+2.21
owville.	0.10	-0.53	3.70	+3.17	.....	.....	0.25	-0.32	0.50	+0.19	2.00	+1.68	0.00	-0.18	0.00	-0.18	.....	.....	3.00	+2.65	0.00	-0.32	3.00	-0.43	.....	.....
ville.	1.23	+0.14	2.25	+1.10	3.13	+1.42	1.61	-0.21	0.85	-1.36	0.47	-0.14	0.52	+0.12	0.82	+0.34	0.17	-0.91	1.57	+0.43	0.00	-1.33	1.90	-0.11	13.52	-0.77
lle.	1.10	+0.23	4.13	+3.42	4.50	.....	1.30	.....	1.55	-0.30	0.45	-0.07	0.50	-0.12	0.55	+0.16	0.40	-0.39	1.60	+0.66	0.05	.....	1.30	+0.34	18.99	+3.56
m.	1.14	.....	3.12	+2.04	4.02	+2.21	1.88	-0.07	1.65	-0.24	0.42	-0.16	0.53	+0.16	0.91	+0.29	0.30	-0.69	1.24	-0.28	0.04	-1.95	1.91	-0.18	16.29	+1.40
y, Idaho.	2.08	.....	2.96	.....	5.07	.....	0.91	.....	3.66	.....	0.22	.....	0.80	.....	1.27	.....	0.02	.....	1.18	.....	0.00	.....	1.47	.....	19.70	.....
No. 1.	1.46	.....	2.79	+1.33	6.54	.....	2.34	.....	1.96	-0.01	0.52	.....	0.03	-0.41	1.00	+0.48	0.90	+0.14	1.87	+0.08	0.00	-0.72	1.30	-0.14	9.80	+1.70
No. 11.	0.00	-0.52	5.94	+4.00	1.00	-0.33	2.14	+0.53	0.19	-0.36	0.19	-0.36	T.	-0.25	0.64	+0.18	0.14	-0.54	1.78	.....	0.00	.....	1.47	.....	19.53	.....
City.	1.15	+0.46	5.00	+2.50	7.85	+4.32	1.69	-0.60	2.44	+0.83	0.45	-0.64	0.49	+0.04	0.66	+0.24	0.47	-0.19	0.83	-0.13	0.02	-1.27	1.36	-0.17	12.53	-2.81
llo, Idaho.	0.87	-1.17	2.00	+0.08	4.00	+1.80	0.98	-0.53	0.40	-0.77	0.45	-0.64	0.49	+0.04	0.66	+0.24	0.47	-0.19	0.83	-0.13	0.02	-1.27	1.36	-0.17	12.53	-2.81
ntery.	0.05	-0.95	0.15	-0.85	0.65	-0.21	.....	.....	.....	.....	0.25	-0.24	0.50	+0.31	0.00	-0.35	.....	.....	T.	-0.57	0.00	-0.53	0.65	-0.21	.....	.....
ph.	1.64	.....	1.75	.....	2.13	.....	1.92	.....	2.15	.....	0.51	.....	0.67	.....	1.01	.....	0.19	.....	T.	-0.57	0.00	-0.53	0.65	-0.21	.....	.....
Beach.	1.45	+0.01	2.25	+0.92	3.99	+1.96	2.20	-0.01	3.08	+1.36	0.27	-0.52	0.59	-0.01	0.28	-0.44	0.12	-0.81	1.18	-0.36	0.00	-1.34	0.90	-0.74	16.31	+0.12
ake City.	1.30	+0.4	2.24	+1.41	4.31	+3.01	1.38	+0.19	0.65	-0.58	0.26	-0.23	0.25	-0.15	0.17	-0.07	0.28	-0.24	2.21	+1.19	T.	-0.92	0.90	-0.14	14.50	+3.25
lle.	0.30	-0.33	0.50	+0.10	0.60	+0.12	0.20	-0.21	0.07	-0.58	0.20	-0.06	0.30	+0.10	0.20	-0.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ne.	2.82	+2.09	2.10	+1.12	4.25	+2.64	2.05	+0.33	3.84	+1.57	0.40	-0.26	0.53	+0.10	0.55	+0.03	0.17	-0.30	0.75	-0.68	0.00	-1.68	0.65	-0.31	18.13	+3.83
n, Idaho.	0.82	-0.18	2.73	+1.49	4.28	+2.73	1.27	-0.36	1.48	-0.66	0.63	+0.11	0.97	+0.46	0.70	-0.06	0.56	+0.18	1.31	.....	0.08	-1.30	0.99	+0.20	15.82	+2.61
uff.	0.30	.....	1.65	+0.79	2.65	+1.42	0.58	-0.10	2.53	+1.87	0.47	+0.21	0.34	-0.05	1.91	+1.62	.....	.....	1.66	+0.77	T.	-0.40	.....	.....	.....	.....
Middle.																										
Rock.	0.41	+0.08	1.00	+0.02	0.93	.....	0.26	.....	1.64	+0.73	0.04	.....	0.05	-0.27	0.56	.....	0.30	.....	0.65	.....	0.00	.....	0.55	+0.21	6.39	-2.05
Dale.	1.00	+0.85	0.83	.....	1.16	.....	0.28	.....	0.77	.....	1.52	.....	T.	.....	0.54	.....	0.36	.....	0.76	.....	0.00	.....	0.05	.....	7.77	.....
0.10	-0.58	0.65	-0.05	0.81	+0.30	0.15	-0.31	1.00	+0.82	0.69	+0.36	0.09	-0.51	0.35	-0.39	0.30	-0.34	1.35	+1.06	0.00	.....	.....	.....	.....	.....	.....
0.15	-0.23	0.97	+0.08	1.55	+0.75	0.18	-0.08	1.33	+0.83	T.	-0.14	0.44	+0.22	0.18	-0.27	0.20	-0.47	0.47	-0.26	0.00	-0.20	.....	.....	.....	.....
T.	-0.05	T.	-0.20	T.	.....	0.13	-0.89	2.13	+1.16	0.60	+0.29	T.	-0.12	0.20	-0.15	0.31	-0.26	0.32	-0.19	0.00	-0.36	0.77	+0.27	7.14	-0.17	
re.	1.89	+0.74	1.90	-0.49	2.16	+0.34	0.26	-1.68	2.81	+1.57	0.28	-0.35	0.07	-0.49	0.93	.....	0.76	.....	0.75	.....	0.00	.....	0.40	.....	4.88	.....
0.07	.....	1.49	.....	0.62	.....	0.06	.....	0.97	.....	0.41	.....	0.93	.....	0.95	.....	0.55	.....	0.94	.....	0.00	.....	0.95	-0.14	12.14	-1.00	
Creek.	1.44	+0.88	2.24	+1.06	4.94	.....	0.79	.....	1.53	-0.27	0.12	.....	0.41	.....	2.02	.....	0.22	.....	1.04	.....	0.00	.....	22	.....	7.21	.....
June, Colo.	0.33	-0.28	0.71	+0.09	0.62	-0.21	0.26	-0.40	1.39	+0.76	0.25	-0.10	0.54	-0.01	1.00	-0.15	0.65	-0.28	0.49	-0.67	0.00	-0.63	0.37	-0.02	15.37	+2.88
River.	0.25	+0.11	0.35	-0.29	0.48	+0.20	.....	.....	0.97	+0.56	0.07	.....	0.92	.....	0.72	0	.....	.....	0.00	.....	0.00	-0.44	0.05	-0.13	.....	.....
0.57	.....	1.75	.....	1.49	.....	1.05	.....	1.81	.....	0.51	.....	0.15	.....	0.91	.....	0.58	.....	1.70	.....	0.00	.....	0.20	.....	10.72	.....
la.	1.71	+0.37	1.93	+0.43	3.25	+1.27	1.00	-0.82	3.13	+1.77	0.44	-0.11	0.79	+0.22	1.24	+0.55	0.27	-0.79	0.98	-0.31	0.00	-0.97	1.52	-0.20	16.26	+1.51
1.10	+0.07	1.13	-0.17	1.71	-0.05	0.93	+0.24	2.03	+1.32	0.40	+0.29	0.61	+0.07	0.37	-0.11	0.48	-0.35	0.94	+0.12	0.00	-0.68	1.50	+0.87	11.20	+2.16	
0.55	.....	2.28	+1.23	2.83	.....	0.33	.....	2.11	+1.07	0.66	.....	0.39	.....	0.54	.....	0.16	.....	0.25	.....	0.00	.....	24	.....	10.34	.....
asant.	1.10	-0.04	1.71	-0.19																						

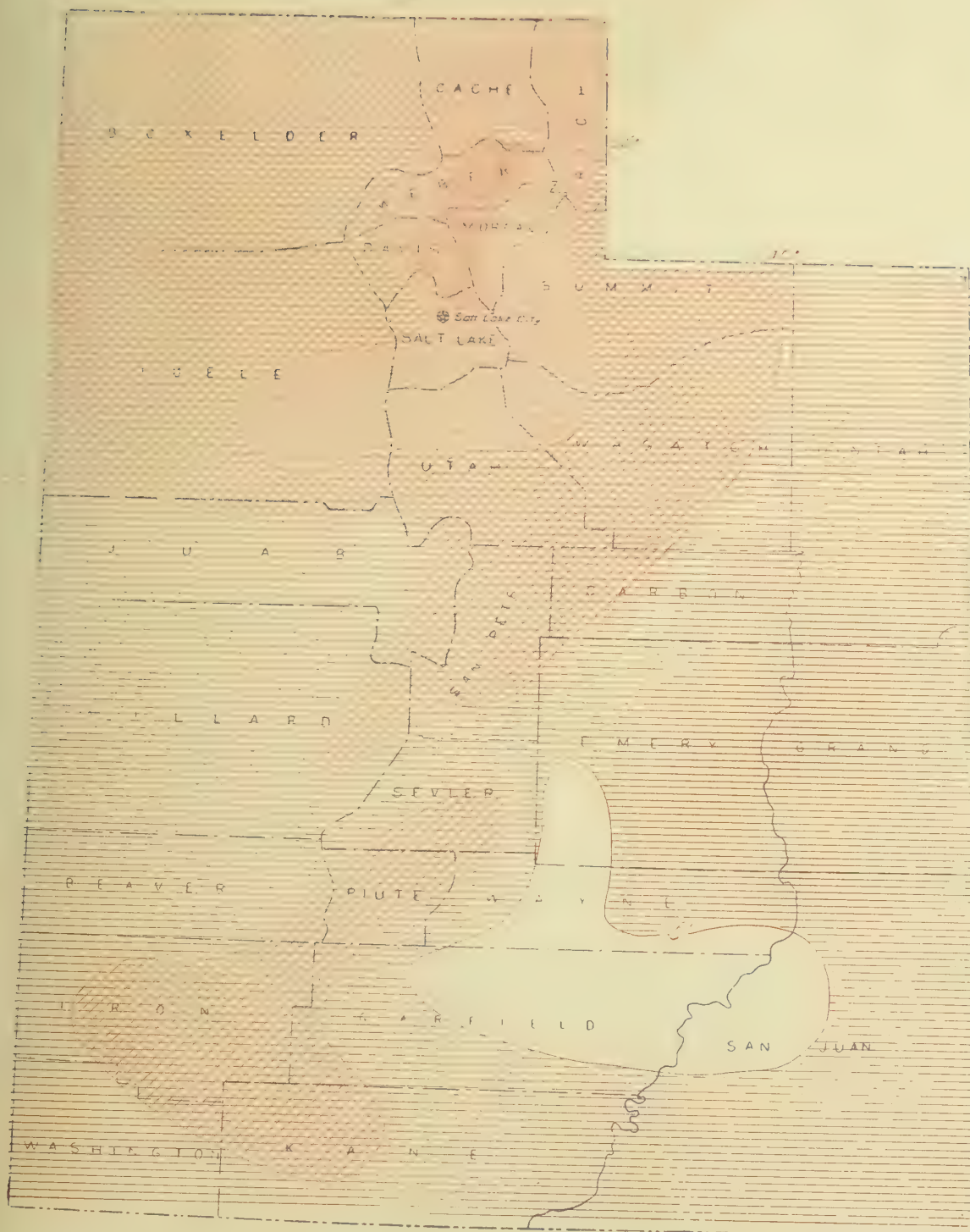
CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS.



KEY TO SYMBOLS

- VOLUNTARY OBSERVATION STATION
- ⊕ FORECAST DISPLAY STATION
- ⊕ VOLUNTARY OBSERVATION AND FORECAST DISPLAY STATION
- U. S. WEATHER BUREAU STATION

TOTAL PRECIPITATION FOR THE YEAR 1901.



SCALE OF SHADES--IN INCHES.



VOLUNTARY OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Alta.....	John W. Stillwell.	Giles.....	J. C. White.	Millville.....	Fred. Yeates.	Randolph.....	William Rex.
Alpine.....	T. B. Whitby.	Gov't Creek.....	Walter James.	Minersville.....	R. W. Dotson.	Ranch.....	J. W. Seaman.
Aneth.....	H. R. Antes.	Grayson.....	Jos. A. Lyman.	Moab.....	Henry Crouse.	Richfield.....	J. M. Lauritzen.
Beaver.....	A. B. Anderson.	Green River.....	J. T. Farrer, Jr.	Modena.....	U. S. Weather Bureau.	Rockville.....	E. R. Daley.
Black Rock.....	Willard Burbank.	Heber.....	John Crook.			St. George.....	J. G. Bleak.
Blacksmith's Fork.....	A. M. Israelson.	Henefer.....	Wm. Brewer.	Morgan.....	T. R. G. Welch.	Salina.....	H. T. Wright.
Callao.....	E. E. Edwards.	Hite.....	F. W. Gibbons.	Mount Nebo.....	D. C. Walkey.	Saltair.....	F. W. Bailey.
Castle Dale.....	James Jeffs.	Huntsville.....	Lars Petersen.	Mount Pleasant.....	Web. Greene.	Salt Lake City.....	Section Center.
Castle Rock.....	David Moore.	Ibapah.....	Owen Sheridan.	Nephi.....	A. Madsen.	Scipio.....	Thos. Memmott.
Cisco.....	Agt. R. G. W. Ry.	Indianola.....	R. H. Spencer.	Ogden No. I.....	Enoch Farr.	Soldier Summit.....	Agt. R. G. W. Ry.
Clear Creek.....	G. H. Martin.	Kanab.....	E. M. Ford.	Ogden No. II.....	W. H. Chevers.	Snowville.....	Jos. Robbins.
Corinne.....	Agt. S. P. R. R.	Kelton.....	Agt. S. P. R. R.	Panguitch.....	J. E. Steele.	Sunnyside.....	J. H. Marshall.
Coyote.....	H. J. McCullough.	La Sal.....	Mrs. G. W. Carpenter.	Park City.....	P. S. McKimmins.	Terrace.....	Agt. S. P. R. R.
Dorset.....	S. W. Western.	Levan.....	Wm. Brown.	Parowan.....	James Connell.	Thistle.....	J. H. Mitchell.
Emery.....	H. C. Wickman.	Loa.....	Michael Hanson.	Payson.....	W. C. Wightman, Jr.	Torrey.....	J. C. Jacobs, Jr.
Escalante.....	W. G. Bleak.	Logan.....	W. M. Jardine.			Tooele.....	I. J. Elkington.
Farmington.....	Charles Boylin.	Lund.....	B. R. Transeau.	Pine Valley.....	Wm. Gardner.	Tropic.....	E. P. Bolton.
Fillmore.....	J. J. Starley.	Manti.....	W. M. Harmon.	Pinto.....	J. H. Harrison.	Utah Lake Pumping Station.....	W. A. Knight.
Ft. Duchesne.....	Ferd. Rohricht.	Marysville.....	G. T. Henry.	Plateau.....	W. H. Schock.	Wellington.....	E. E. Branch.
Frisco.....	S. N. Slaughter.	Meadowville.....	J. S. Moffat.	Promontory.....	Agt. S. P. R. R.	Woodruff.....	Thos. Ashton.
Garrison.....	E. M. Smith.			Provo.....	Caleb Tanner.		

DISPLAYMEN.

Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.
Bingham Canyon *(40).....	C. H. Roberts, P. M.	Heber.....	C. H. Ohlweiler.	Murray.....	Murray Mer. Co.	Riverton *(100).....	A. E. Walker, P. M.
Calder's Park *(200).....	W. J. Butterworth, P. M.	Logan *(19).....	F. D. Farrell.	Parowan.....	Alexander Orton.	St. George.....	Miss L. Nelson.
		Morgan.....	T. R. G. Welch.	Point Lookout.....	C. E. Foxley.	Toquerville.....	W. A. Bringham.
		Mount Pleasant.....	Thomas Braby.	Provo *(17).....	W. K. Henry.	Utah Penitentiary	Arthur Pratt.

* Distributing centers. Figures in parenthesis indicate number of persons and places supplied daily with forecasts.

TABLE OF KILLING FROSTS.

Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.
Alpine.....	June 25		Frisco.....	May 24	Oct. 16	Marysville.....	April 30	Sept. 27	Ranch.....	June 17	Sept. 2
Aneth.....	April 1	Oct. 18	Garrison.....	June 25	Sept. 27	Meadowville.....	June 26	July 30	Randolph.....	June 27	Aug. 2
Beaver.....		Sept. 27	Giles.....	May 10	Sept. 19	Millville.....		Oct. 5	Richfield.....	May 17	Sept. 2
Black Rock.....	May 9	Sept. 26	Gov't Creek.....	April 29	Sept. 19	Minersville.....		Oct. 5	Rockville.....	April 29	Sept. 1
Blacksmith's Fork.....			Green River.....			Moab.....	April 9	Sept. 28	Salina.....		
Blue Creek.....			Grover.....			Morgan.....	June 25	Aug. 21	Saltair.....	April 21	Oct. 1
Callao.....	June 26	Aug. 22	Heber.....	June 25	Aug. 22	Mt. Nebo.....	June 25	Aug. 21	St. George.....	April 1	Oct. 1
Castle Dale.....	May 9	Aug. 21	Henefer.....	May 8	Aug. 21	Mt. Pleasant.....	April 24	Sept. 28	Salt Lake City.....	April 8	Oct. 1
Castle Rock.....	June 27	July 30	Hite.....	April 3	Oct. 19	Monticello.....	May 8	Oct. 15	Scipio.....	June 26	Aug. 2
Cisco.....	May 8	Sept. 27	Huntsville.....	June 27	Aug. 20	Nephi.....	June 26		Snowville.....	June 26	Sept. 2
Clear Creek.....			Ibapah.....	June 26	Aug. 21	Ogden.....	May 8	Oct. 17	Soldier Summit.....	June 28	Aug. 2
Corinne.....	May 8	Oct. 15	Indianola.....	June 24	Aug. 22	Panguitch.....	June 24		Sunnyside.....		
Coyote.....	July 4	Sept. 3	Kanab.....	April 28	Oct. 16	Park City.....	May 28	Aug. 21	Terrace.....	May 11	Aug. 2
Dorset.....	May 9	Aug. 29	Kelton.....		Oct. 1	Parowan.....	April 21	Sept. 27	Thistle.....	June 24	Aug. 2
Emery.....	May 10	Sept. 7	La Sal.....		Sept. 27	Payson.....	June 25	Aug. 22	Tooele.....	April 24	Oct. 1
Escalante.....		Oct. 18	Levan.....	June 25	Oct. 16	Pine Valley.....		Sept. 26	Tropic.....	May 2	Sept. 2
Farmington.....	May 9	Oct. 18	Loa.....	May 24	Sept. 28	Pinto.....	May 8	Sept. 22	Utah Lake.....		
Fillmore.....	May 8	Sept. 27	Logan.....	April 29	Oct. 17	Plateau.....	June 26	Sept. 2	Vernal.....		
Ft. Duchesne.....	May 13	Sept. 2	Lund.....	May 9	Oct. 16	Promontory.....		Sept. 28	Wellington.....	May 20	Aug. 2
			Manti.....	May 9	Oct. 16	Provo.....	May 9	Oct. 18	Woodruff.....	June 25	July 3

Note—At stations where no frost record was kept, the date of the last freezing temperature of spring and the first freezing temperature of autumn have been given. Such data have been distinguished from the regular frost report by the use of the dagger (†).

condition is not very satisfactory. As a result of the long drought the ground was very dry, and the snowfall during the latter part of the month was inadequate to fully relieve this condition. At present the outlook for fall grain is not very promising, and some fears are expressed that the cold weather of the last few days of the month may have damaged some of the crop not protected by a covering of snow. Stock was in good condition and being fed. The ranges were improved by the precipitation during the month.

Temperature—The mean temperature for the section was 48.5°, or 0.2° above the normal. Throughout the northern and middle portions the temperature was practically normal, while over the southern portion there was an excess of 0.8°. The highest annual mean for any station was 60.9° at Rockville; the lowest, 38.6° at Soldier Summit. The highest temperature recorded during the year was 109° at Green River on July 25th; the lowest, 26° below zero occurred at Henefer on February 10th. The annual range for the section was accordingly 135°. The maximum temperatures of the year occurred generally in July; and the minimum temperatures during the last decade of December.

Precipitation—The average precipitation for the section was 12.21 inches, or 0.33 inch above the normal. Excesses of 0.72 and 0.31 inch, respectively, prevailed over the northern and middle portions, while a deficiency of 0.12 inch occurred over the southern portion. The greatest annual rainfall for any station was 22.79 inches at Farmington; the least, 4.44 inches at Hite. There was an average of 54 days with .01 inch or more of precipitation.

Character of Day and Sunshine—There was an average of 194 clear, 94 partly cloudy, and 78 cloudy days. Determined from the automatic sunshine record, Salt Lake City had 64 per cent.; Modena, 77 per cent.; Grand Junction, Colo., 74 per cent., and Pocatello,

Idaho, 70 per cent. of the possible amount of sunshine. The normal annual sunshine at Salt Lake City was 62 per cent.

Wind—The prevailing direction of the wind was from the south. The total number of miles recorded by the anemometer recorded at Salt Lake City was 52,355 miles; at Modena, 96,235; at Grand Junction, Colo., 45,531, and at Pocatello, Idaho, 80,423. The maximum velocity at Salt Lake City was 48 miles from the west on March 23rd; at Modena, 63 miles from the southwest on March 20th; at Grand Junction, Colo., 38 miles from the southeast on July 15th, and at Pocatello, Idaho, 46 miles from the southeast on March 10th.

Relative Humidity—The mean annual relative humidity at Salt Lake City was 50 per cent., the lowest observed reading being 49 per cent. on April 26th, June 27th and September 2nd; at Modena, 49 per cent., the lowest observed reading being 5 per cent. on July 3rd; at Grand Junction, Colo., 49 per cent., the lowest observed reading being 13 per cent. on May 18th; at Pocatello, Idaho, 54 per cent., the lowest observed reading being 8 per cent. on August 8th. The normal annual relative humidity at Salt Lake City is 51 per cent.

Corrections to Annual Report of 1903—Page 5, Manti: Total precipitation recorded, 10.26 inches, should be 10.20. Pinto: Total precipitation recorded, 10.40 inches, should be 10.90. Page 6, Fillmore: Mean temperature for January recorded, 35.5°, should be 33.5°. Provo: Mean temperature for December recorded, 28.4°, should be 28.4°. Page 9, Saltair Beach: Total precipitation for September recorded, 0.20 inch, should be 0.30 inch. Manti: Total annual precipitation recorded, 10.26 inches, should be 10.20 inches. Parowan: Total precipitation for April recorded, 1.66 inches, should be 1.06. Pinto: Total annual precipitation recorded, 10.40 inches, should be 10.90.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

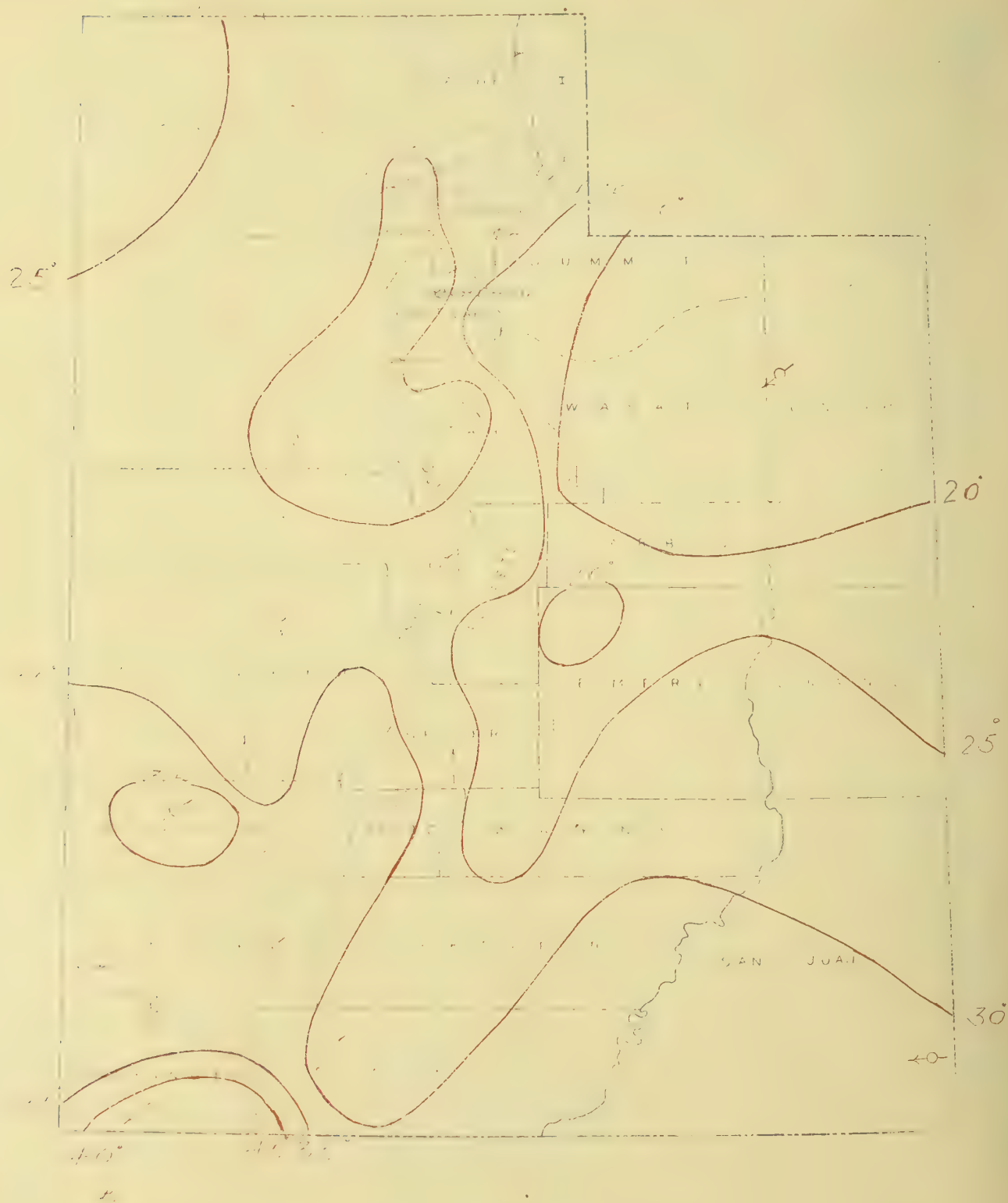
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
FEB. 21, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

L. VII. January, 1905. No. 3.

WEATHER.

Descriptive accounts of January weather, made by the voluntary observers in Utah, graphically portray the most delightful winter meteorological conditions experienced here in a long time. The warm, balmy air that fanned agricultural Utah drove the mud from the roads and fields, and conveyed suggestions of early springtime, despite the cloudiness that was general. The clouds distributed precipitation quite evenly over the state, maintaining a fairly hopeful outlook for summer farming.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 28.9° , or 2.7° above the normal. The highest local monthly mean was 42.8° at Rockville; the lowest was 15.8° at Ft. Duchesne. The highest temperature recorded was 71° at Fillmore on the 25th; the lowest was 22° below zero at Ft. Duchesne on the 13th, giving an absolute range for the section of 93° . The greatest daily range for any station was 63° at Scipio on the 1st. The highest temperatures of the month were generally recorded on the 25th, and the lowest on the 13th.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 0.86 inch, or 0.23 inch below the normal. There is a deficiency over the northern and middle portions, and an excess over the southern portion. The greatest monthly amount was 3.15 inches at Ranch; and the least, 0.05 inch at Callao. The greatest precipitation in any 24 consecutive hours was 1.30 inches at Ranch on the 10th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was south-east. The total number of miles recorded at Salt Lake City was 2,361; at Modena, 5,672; at Grand Junction, Colo., 2,225; and at Pocatello, Idaho, 4,750. The maximum velocity at Salt Lake City was 25 miles per hour from the east on the 11th; at Modena, 27 miles from the east on the 1st; at Grand Junction, Colo., 27 miles from the southeast on the 13th; and at Pocatello, Idaho, 27 miles from the southwest on the 1st.

The average number of clear days for the section during the month was 12; partly cloudy days, 7; cloudy days, 12. Determined from the records of automatic sunshine recorders, Salt Lake City had 52 per cent; Modena 67 per cent; Grand Junction, Colo., 37 per cent; and Pocatello, Idaho, 51 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City

was 71 per cent, the lowest observed reading being 43 per cent on the 24th and on the 25th; at Modena, 66 per cent, the lowest observed reading being 38 per cent on the 27th; at Grand Junction, Colo., 77 per cent, the lowest observed reading being 55 per cent on the 4th; and at Pocatello, Idaho, 79 per cent, the lowest observed reading being 51 per cent on the 24th.

There was an average of 5 days with .01 inch or more of precipitation over the section; 6 over the northern, 4 over the middle, and 5 over the southern portion.

SOILS AND CROPS.

The general weather conditions had an exhilarating effect on the life of winter grain, though the absence of snow in some localities, to protect the green grain from impending freezes, is regarded as deleterious. The open season produced some growth in many grain fields, and on the range. Valleys bare of snow were thawed out so completely that a great deal of plowing was done. The range still affords a safe retreat for hundreds of sheep, cattle and horses, all of which are in good condition, with an abundance of feed.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF JANUARY, 1905.

The stores of snow in the mountains were considerably increased during January, though much of the precipitation was in the form of rain. From 1 to 6 feet of snow is packed solidly into the gulleys and ravines that lead away from the sun, and even in the canyons on the southern slopes there is considerable moist snow, despite the abnormally warm weather that has prevailed. Most of the snow is fresh, except in a few southeastern ranges, and here the old snow is well protected by a hard incrustation. The outlook is not regarded as very flattering generally, as precipitation nearly everywhere is slightly below the normal; but, inasmuch as agricultural interests generally over the State outside of Washington county depend chiefly on February and March snows, there is very little anxiety so far regarding the summer's irrigation flow.

PHENOLOGICAL OBSERVATIONS AT HENEFER.

(Made by Mr. Wm. Brewer).

It is interesting to peruse the data collected during the season of 1904 at this station, situated a mile above the sea and at latitude 40° N.

The summer season, as indicated by forest leaves, extends from about the first of May to the middle of September, or five and one-half months. Forest trees became leafless six weeks later. Three weeks subsequent to the spring leafing of natural forest trees apple trees began to show leaf, and on June 1st blossoms appeared, reaching full bloom a week later. This fruit was maturing and harvest began about August 15th, and in about four weeks a very satisfactory amount of a good quality was obtained from the season's yield.

Small grain sowing began about the middle of April and was completed a month later. Some small amounts of wheat were sown in the fall of 1903. Though this cereal was slightly damaged by frost, a fair yield was harvested from July 25th to August 30th. Oats matured in fair condition, and a good yield was gathered during the month of August. Barley, also, was nipped by frost, but a fair yield was obtained at harvest, which extended from July 20th to August 7th.

A very good crop of timothy hay was secured that was sown during May and June, 1904. By beginning as early in the spring as the ground could be worked, alfalfa matured two fairly good cuttings; the first during the latter part of July, and the second two months later.

Potatoes were planted during May, but were subsequently injured by frost, and the harvest early in October was not altogether satisfactory.

OBSERVERS' REMARKS.

Alpine.—The finest January ever observed here; stock wintered well until a few days ago, when the weather became unfavorable.—Thos. B. Whitby.

Aneth.—An unusually cloudy month.—H. R. Antes.

Black Rock.—With the exception of the fore part of the month, January has been very mild; its mildness has been almost too pronounced, unseasonable in fact.—Willard Burbank.

Castle Dale.—The latter part of the month was excessively cloudy, and it appeared as though snow had been falling in the mountains the greater portion of that time.—James Jeffs.

Castle Rock.—The finest January I ever observed here; cattle are fat on the range, though they have been fed very little; prospects for irrigation water are very gloomy, and there is very little snow in the mountains or hills.—David Moore.

Deseret.—January has been a very mild month; stock on the range doing fairly well; frost all out of the ground; soil quite moist.—Samuel W. Western.

Emery.—Good prospects for farming next year; ground becoming wet from snow and fog; the fog is unprecedented for Castle Valley.—H. C. Wickman.

Farmington.—Very warm and spring-like weather; there is very little snow in the hills in this district; in some of the bench lands plowing has begun.—Charles Boylin.

Giles.—During the last half of the month the sky has been almost continually overcast.—John C. White.

Government Creek.—The month has been too fine for winter grain; very little snow fell in the mountains around this vicinity during the month; feed is better than for years, and the sheep are in fine condition.—Walter James.

Heber.—The month began cold, but ended with a thaw; the snow in the east mountains is very scarce.—John Crook.

Henefer.—Less snow than for many years; the ground is exceedingly soft; water prospects rather poor just at present; there is not much frost in the ground.—William Brewer.

Huntsville.—The first week of the month was quite cold, but the balance of the month has been quite mild, with considerable cloudiness and wet weather.—Lars Petersen.

Kanab.—The snow in the valleys has melted as fast as it fell.—E. M. Ford.

Marysville.—Month generally cloudy and calm; considerable foggy and hazy weather prevailed; prospects for irrigation water very poor.—Geo. T. Henry.

Meadowville.—This has been one of the finest months in years; the snow that began on the 29th was very moist, and melted as it fell; sheep have had good grazing all month.—J. S. Moffat.

Moab.—On the 10th and 11th of the month, Moab experienced the heaviest snowfall since 1889.—Henry Crouse.

Mount Nebo.—But little snow fell during the month; the first half was cold, but not windy; the latter part was warm; snow all gone in the valley; frost out of the ground, and some ploughing has been done.—D. C. Walkey.

Payson.—Snow was very light, and yielded but little water.—W. C. Wightman, Jr.

Pinto.—A very pleasant month; ground bare and dry on level; very little frost in the ground.—J. H. Harrison.

Ranch.—A very pleasant month; the ground is covered to a good depth with snow, and prospects are very bright for next season's supply of irrigation water.—J. W. Seaman.

Woodruff.—This has been the finest January ever experienced here. Thomas Ashton.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence).

Parhelia.—Pinto, 31.

Fog, light.—Marysville, 5, 6.

Corona, lunar.—Marysville, 13, 14, 19.

Halos, solar.—Levan, 9; Parowan, 6; Ranch, 6.

Earthquake.—Nephi, 13th, at 12.30 p. m.; 16th, at 4.10 p. m.

Hail.—Black Rock, 18; Levan, 10, 22; Marysville, 21; Provo, 20.

Halos, lunar.—Henefer, 9; Levan, 16; Marysville, 15; Modena, 26.

High winds.—Government Creek, 29; Ogden, 10; Ranch, 1; Salt Lake City, 11; Utah Lake Pumping Station, 1.

Sleet.—Henefer, 11; Huntsville, 21, 22, 29, 31; Marysville, 21; Meadowville, 22, 29; Utah Lake Pumping Station, 21.

Fog, dense.—Aneth, 30, 31; Black Rock, 5; Castle Rock, 9, 17; Deseret, 2-7, 18-20; Emery, 20-31; Frisco, 17, 18; Henefer, 9, 19; Kanab, 18; Marysville, 11, 17; Meadowville, 9-11; Modena, 17, 18; Payson, 10; Pinto, 17; Utah Lake Pumping Station, 3, 12, 17.

GREAT SALT LAKE.

The stage of the water on January 1st was at the zero mark on the gage; on January 15th it stood one tenth of a foot above the zero, and remained there up to February 1st, 1905.

LATE NOVEMBER REPORTS.

Rockville.—Mean temperature, 55.8°; highest, 90° on the 15th; lowest, 22° on the 12th; greatest daily range, 63°. Total precipitation, none; number of clear days, 14; partly cloudy days, none; cloudy days, 15; prevailing direction of the wind, east.

Escalante.—Mean temperature, 39.8°; highest, 64° on the 1st; lowest, 14° on the 12th; greatest daily range, 39°. Total precipitation, none; number of clear days, 21; partly cloudy days, 8; cloudy days, 1; prevailing direction of the wind, west.

LATE DECEMBER REPORTS.

Escalante.—Mean temperature, 31.4°; highest, 62° on the 4th; lowest, -2° on the 29th; greatest daily range, 32°. Total precipitation, .10 inch; greatest in 24 hours, .10 inch on the 25th. Total snowfall, 1 inch; number of rainy days, 1; clear days, 16; partly cloudy days, 10; cloudy days, 5; prevailing direction of the wind, west.

Blacksmith's Fork.—Total precipitation, 1.20 inches; greatest in any 24 consecutive hours, .60 inch on the 23rd; total snowfall, 12 inches; number of rainy days, 5; clear days, 18; partly cloudy days, none; cloudy days, 13.

**Comparative Temperature and Precipitation Data for January
During the Past Fourteen Years.**

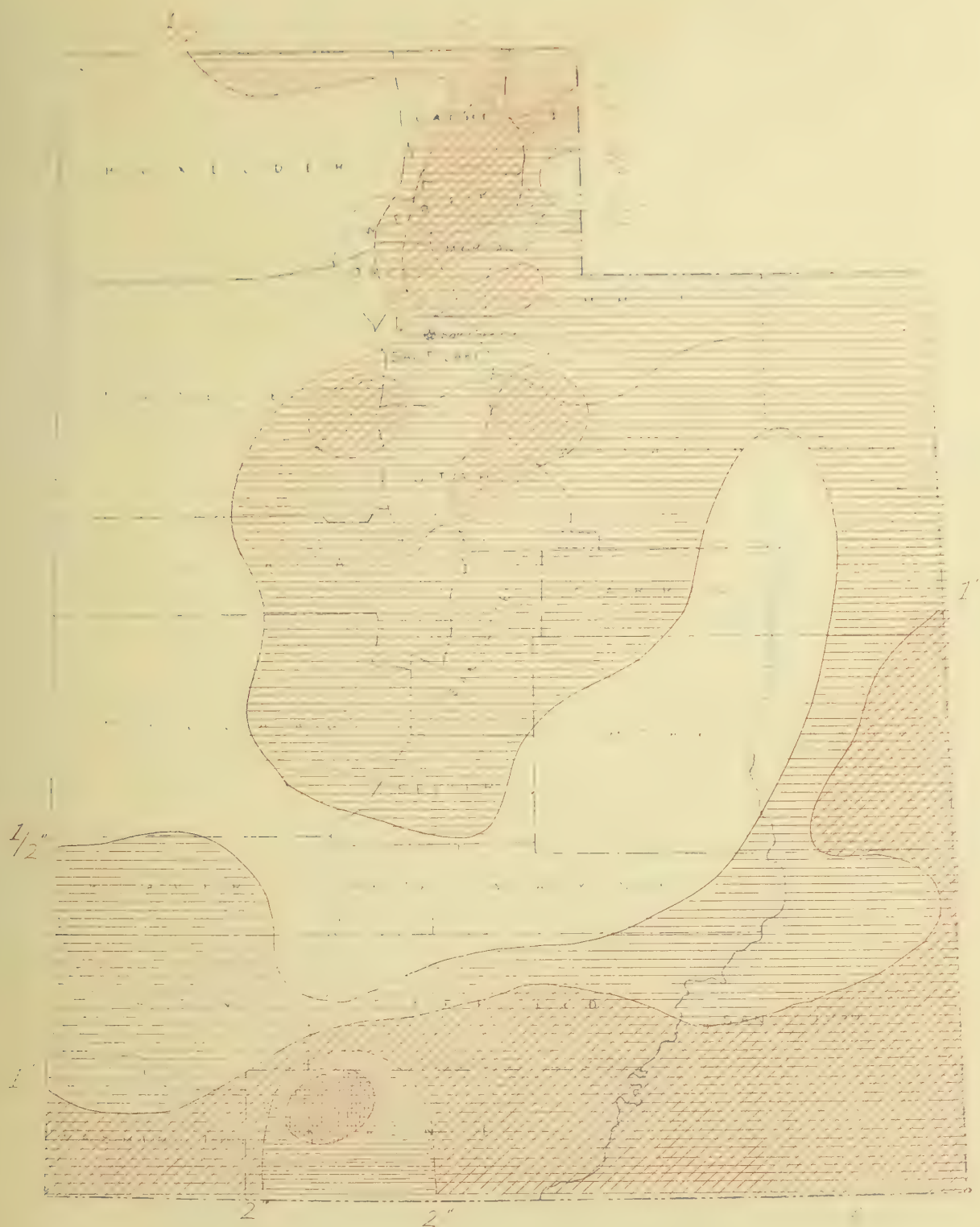
Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	24.4	68	-19	0.85
1893	26.0	71	-23	0.94
1894	21.9	63	-24	1.18
1895	23.0	60	-25	1.67
1896	28.4	66	-17	0.81
1897	26.1	68	-24	1.53
1898	16.9	69	-34	1.07
1899	27.9	70	-21	1.14
1900	31.6	70	-10	0.43
1901	28.2	64	-26	0.69
1902	26.5	74	-38	0.71
1903	27.0	66	-21	1.40
1904	23.3	68	-23	0.83
1905	28.9	71	-22	0.86

CLIMATOLOGICAL DATA FOR UTAH, JANUARY, 1905.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine	Utah	4,900	9								0.79	-0.54	0.45		5					T. B. Whitby.
Blacksmith's Forks	Cache										1.20		0.40	12.0	8	20	0	11		A. M. Isackson.
Castle Rock	Summit										0.65		0.33	3.0	5	14	2	15		David Moore.
Corinne	Box Elder	4,240	35	29.6	+4.9	60	25	-1	12	31	0.35	-0.92	0.15	2.5	4	12	0	19		W. E. Johnson.
Evansville, Wyo.	Uinta	6,959	9	24.6	+4.0	51	24	-9	13	39	0.27	-0.57	0.15	3.0	4	14	12	5	sw.	Frank Tucker.
Farmington	Davis	4,267	5	31.4	+3.0	53	26	6	13	30	1.47	+0.05	0.50	7.0	6	17	3	11	nw.	Charles Boylin.
St. Duchesne—T4	Uintah	5,000	17	15.8	+4.4	40	1	-22	13	37	0.50	+0.13	0.50	5.0	1	19	0	12	ne.	Ferdinand Rohricht.
Heber	Wasatch	5,666	12	21.2	-0.2	49	25	-16	13	44	1.22	-0.80	0.40	10.5	5	14	8	9	s.	John Crook.
Interfer	Summit	5,301	6	25.6	+2.0	55	25	-13	13	43	1.09	-0.17	0.25	5.0	10	11	8	12	w.	William Brewer.
Juntura	Weber	5,100	10								1.79	-0.35	0.67	5.0	8	9	7	15		Lars Petersen.
Kelton	Box Elder	4,230	27	24.8	+1.7	46	24	-3	1	30	0.30	-0.33	0.20	3.2	6	11	16	4		Agent So. Pacific Co.
Kogan	Cache	4,507	14	27.7	+3.5	49	25	-4	13	25	0.40	-0.69	0.17		3					W. M. Jardine.
Leadville	Rich	6,200	6	25.7	+3.0	42	*23	0	13	22	2.30	+1.55	0.80	17.0	7	13	1	7	w.	J. S. Moffat.
Leadville	Cache	4,848	10								1.70	+0.51	0.80		8					Fred Yeates.
Logan	Morgan		1	26.3		52	25	-8	6	36	0.84		0.23	4.4	11	13	9	9		T. R. G. Welch.
Madley, Idaho	Cassia	4,191	12																	Thomas Adams.
Madley No. 1	Weber	4,310	4	30.4		51	25	10	13	23	1.20		0.54	0.5	6	12	6	13	nw.	Enoch Farr.
Madley No. 2	Weber	4,310	35	31.7	+3.2	50	*25	12	3		1.22	-0.27	0.60	1.0	7	9	4	18	e.	W. H. Chevers.
Park City	Summit	6,846	8																	P. S. McKimmins.
Pocatello, Idaho	Bannock	4,483	5	28.8	+9.7	54	*8	1	10	26	0.43	-1.66	0.14	4.0	6	7	8	16	w.	Weather Bureau.
Promontory	Box Elder	4,913	35	27.4	+5.4	45		-4	2		0.71	-0.76	0.10	2.5	5	9	4	18	e.	Agent So. Pacific Co.
Randolph	Rich										0.70	-0.76	0.10	2.5	5	9	4	18	e.	Wm. Rex.
Saltair Beach	Salt Lake		1	30.5		48	25	9	13	20	0.38		0.12	1.0	5					Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	31	33.2	+5.3	57	25	14	12	21	0.65	-0.79	0.22	4.1	8	12	6	13	se.	Section Center.
Stoville	Box Elder	4,360	15	27.1	+2.9	57	25	-5	*5	44	0.83	-0.33	0.30	3.0	5	11	7	13	s.	Joseph Robbins.
Terrace	Box Elder	4,550	37																	Agent So. Pacific Co.
Tooele	Tooele	4,900	9	32.3	+3.1	55	25	10	13	26	1.02	+0.29	0.35		5	11	4	16		I. J. Elkington.
Vernon, Idaho	Oneida	4,460	7																	William Chatterton.
Voodruff—T9	Rich	6,500	8	26.7	+10.4	53	25	-10	13	40	0.40		0.30	4.0	2	4	14	4		Thomas Ashton.
Averages				27.5	+3.5						0.91	-0.53		4.9	6	13	6	12	w.	
MIDDLE.																				
Black Rock—T2	Millard	4,872	5	28.2	+1.2	59	30	-5	13	53	0.48	+0.15	0.25	4.8	5	12	7	12	s.	Willard Burbank.
Callao—T2	Juab		3	28.4		68	28	0	12	55	0.05		0.05	1.0	1	16	7	8		E. E. Edwards.
Castle Dale	Emery	5,500	6	18.7	-8.1	45	1	-5	3	46	0.50	+0.35	0.30		2	12	6	13		James Jeffs.
Escalante	Grand	4,385	13																	H. T. Matthews.
Deseret	Millard	4,541	11	26.8	-0.2	60	25	-10	13	44	0.52	+0.14	0.15	8.0	4	13	4	14	n.	S. W. Western.
Emery	Emery	6,260	5	24.2	-3.0	45	17	-2	13	34	0.08	+0.03	0.04	0.8	3	6	3	22	n.	H. C. Wickman.
Fillmore	Millard	5,100	15	35.2	+0.2	71	25	4	2	42	0.90	-0.25	0.52		3					J. J. Slackley.
Harrison	Millard		1	30.8		59	*28	0	*1	37	0.37		0.26							E. M. Smith.
Jordan's Creek	Tooele	5,277	5	39.1	+2.5	54	25	3	1	30	1.04	+0.08	0.30	3.7	2	15	9	7	s.	Walter James.
Madison Junction, Col.	Mesa	4,608	14	24.0	-3.0	40	23	-5	14	35	0.61	+0.40	0.52	13.8	4	6	7	18	nw.	Weather Bureau.
Green River	Emery	4,080	8	27.6	+0.6	51	16	-14	15	49	0.40	+0.26	0.40	4.0	1	3	2	26		J. T. Farrer, Jr.
Harrah	Tooele		1	26.9		60	27	-10	2	49	0.27		0.25	2.8	2	12	14	5		Owen Sheridan.
Indianola	San Pete										0.99		0.71		3	24	0	1		R. H. Spencer.
Jordan	Juab	5,010	15	26.0	+2.1	48	25	1	5	26	0.91	-0.43	0.51	10.6	4	11	8	12	sw.	William Brown.
Kanti—T2	San Pete	5,575	11	21.8	-0.8	54	31	-5	2	39	0.85	-0.18	0.40	8.5	4	0	19	8		W. M. Harmon.
Laurel	Utah	4,050	4	30.3		56	25	5	6	29	0.61		0.23	6.0	5	10	12	9	n.	D. C. Walkey.
Laurel Pleasant	San Pete	5,859	13	29.2	+1.4	59	30	2	1	30	0.80	-0.34	0.40	8.0	3	15	16	0		Web Greene.
Nephi	Juab										0.79		0.43	12.5	5	14	8	9		H. D. Allred.
Payson	Utah	4,637									1.40		0.85	12.5	4	8	18	5		W. C. Wightman, Jr.
Provo	Utah	4,532	13	30.4	+3.8	60	25	-5	13	45	1.42	+0.42	0.44	10.9	6	5	20	5	nw.	Caleb Tanner.
Richfield—T9	Sevier	5,323	15	29.4	+3.7	61	*28	1	1	35	0.90	+0.26	0.60	9.0	3	8	12	2		J. M. Lauritzen.
Scipio	Millard	5,260	10	29.8	+3.4	69	30	-14	1	63	0.67	-0.60	0.28	3.7	4	2	12	17	sw.	Thomas Memmott.
Soldier Summit	Utah	7,474	13	19.7	+1.2	38	26	-10	13	36	0.59	-1.06	0.20	9.0	5	13	0	18	sw.	Agent Rio Grande R. R.
Thistle	Utah	5,675	13	26.4	+0.6	57	25	-13	12	45	0.97	-0.41	0.40	8.7	6	12	19	0		J. H. Mitchell.
Utah Lake Pmp. Sta.				28.6		52	25	-10	13	44	0.51		0.15	1.4	5	9	8	14	se.	W. A. Knight.
Wellington—T1	Carbon	5,540	6	23.9		46	*7	-11	14	48	0.60	+0.36	0.60	6.0	1					E. E. Branch.
Averages				27.4	+2.1						0.68	-0.24		6.6	4	11	9	11	nssw	
SOUTHERN.																				
Aneth	San Juan	4,800	5	30.3	-2.9	50	1	10	*1	40	1.67	+1.11	0.95		5	7	12	12	e.	H. R. Antes.
Beaver	Beaver			31.8		60	31	0	2	51	0.06		0.02	0.6	3					A. B. Anderson.
Coyote	Garfield		4	28.2		63	27	-9	13	48	0.47		0.20	4.7	3	21	1	9		H. J. McCullough.
Escalante	Garfield	5,700	5	25.4		46	6	3	*6	43	1.40		0.60	14.0	5	6	6	19		W. G. Bleak.
Experiment Farm	Washington			40.6		62	8	13	2	38						22	0	9		Joseph T. Atkin.
Frisco	Beaver	7,318	11	36.9	+4.9	59	27	12	2	31	0.66	+0.28	0.35	6.8	7	11	6	14	sw.	S. N. Slaughter.
Hiles	Wayne	4,000	10	27.6	+1.8	51	1	-8	14	44	0.47	+0.06	0.47	3.5	1	11	4	16		J. C. White.
Grayson	San Juan																			Joseph D. Lyman.
Grover (near)	Wayne	5,800	9																	John C. Jacobs, Jr.
Hite	Garfield	3,000	6	36.4		56	13	17	5	34	0.76		0.45		3	8	6	17		F. W. Gibbons.
Kanab—T1	Kane	4,925	5	29.7		51	31	4	3	45	2.10		0.70		7	16	0	14		E. M. Ford.
La Sal	San Juan	7,000	5	25.8		47	25	7	*1	33	0.99		0.64		4	12	13	6		Mrs. G. W. Carpenter.
La Sal	Wayne	7,000	13	22.7	+0.3	55	1	-8	14	55	0.30	-0.15	0.20	3.0	2	13	0	9		Michael Hansen.
Larysville (near)	Piute	6,180	6	30.6		61	30	1	*2	44	0.49		0.14	4.9	7	8	8	15	sw.	G. T. Henry.
Minersville	Beaver	5,070	8	32.0	+3.5	59	29	-4	*2	43	0.60	-0.15	0.30	6.0	3					

Boldface figures indicate temperatures below zero;

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
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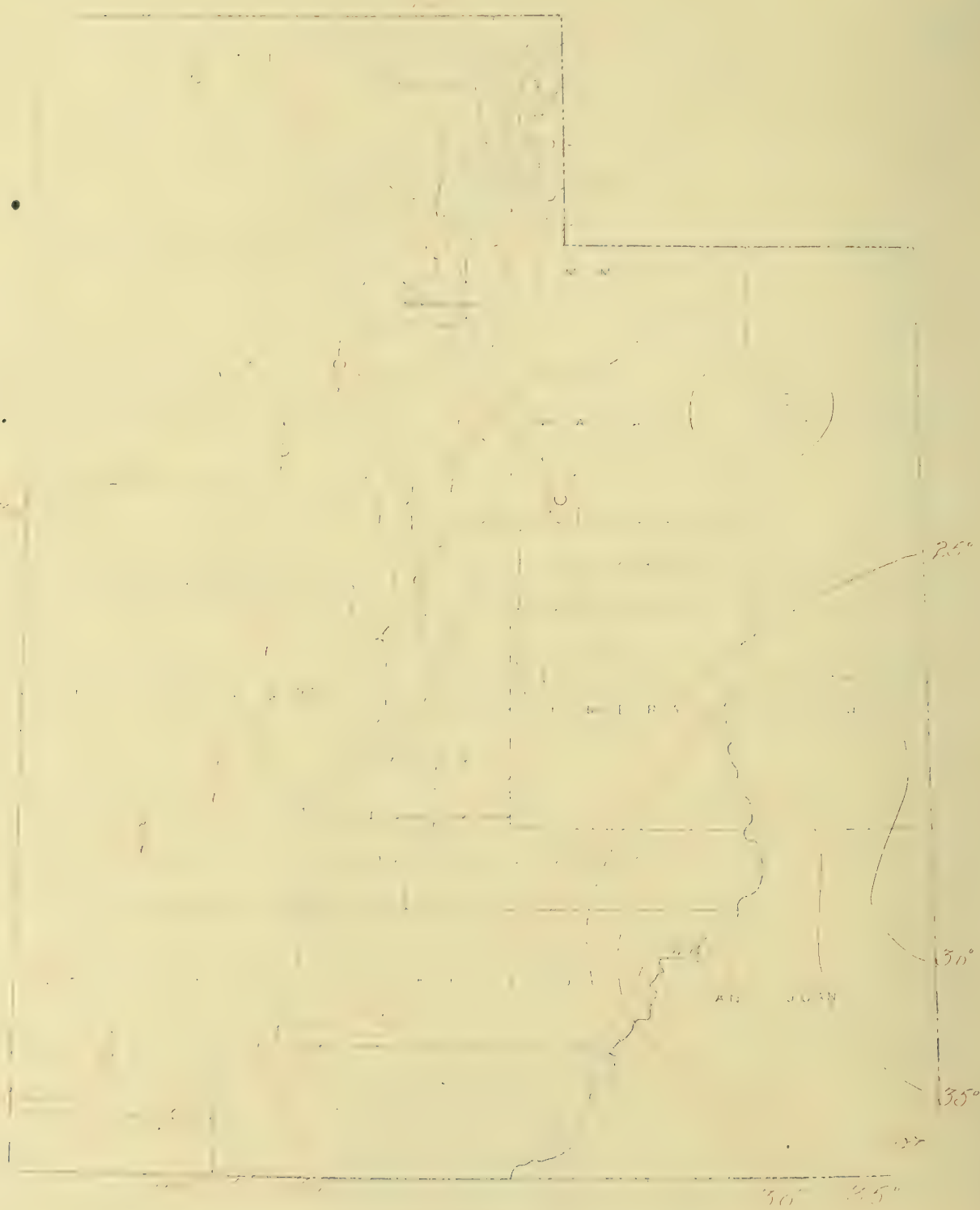
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MARCH 21, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

February, 1905.

No. 4.

WEATHER.

The abnormally warm weather that has hitherto been such a marked feature of the winter continued throughout the month of February, interrupted, however, for a short period during the middle of the month by one of the severest cold waves that ever visited this region. During the first week of the month warm, cloudy and stormy weather prevailed, during which period considerable rain and snow fell throughout the entire section, especially over the southern half, where in many localities the precipitation was the heaviest on record. On the 11th clearing weather set in, accompanied by high barometric pressure and rapidly falling temperature that sent the mercury below the zero mark in nearly all portions of the section, and in the more elevated districts to more than 30° below zero. This period of Arctic frigidity was followed by gradually rising temperature, and during the closing decade of the month the warm, clear and balmy weather that prevailed was suggestive of early spring.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 30.5°, or 2.1° above the normal. The highest local monthly mean was 44.7° at St. George; the lowest was 18.8° at Woodruff. The highest temperature recorded was 73° at St. George on the 26th; the lowest was 35° below zero at Woodruff on the 12th, giving an absolute range for the section of 108°. The greatest daily range for any station was 67° at Scipio on the 11th. The highest temperatures generally occurred during the last few days of the month, while the lowest were recorded on the 12th and 13th.

PRECIPITATION.

The average precipitation, determined from the reports of 70 stations, was 1.67 inches, or 0.38 inch above the normal. There was a deficiency over the northern portion, while over the middle and southern portions the precipitation was far in excess of the normal. The greatest monthly amount was 7.60 inches at Ranch; the least was 0.02 inch at Kelton. The greatest rainfall in any 24 consecutive hours was 1.70 inches at Provo on the 2nd.

WIND AND WEATHER.

The prevailing direction of the wind for the section was north. The total number of miles recorded at Salt Lake City was 3,251; at Modena, 5,029; at Grand Junction, Colo., 2,501; and at Pocatello, Idaho, 5,123. The maximum velocity at Salt Lake City was 45 miles per hour from the northwest on the 8th; at Modena, 34 miles from the west on the 10th; at Grand Junction, Colo., 24 miles from the northwest on the 8th; and at Pocatello, Idaho, 34 miles from the southwest on the 8th.

The average number of clear days for the section during the month was 11; partly cloudy days, 7; cloudy days, 10. Deter-

mined from the records of automatic sunshine recorders, Salt Lake City had 54 per cent; Modena 57 per cent; Grand Junction, Colo., 50 per cent; and Pocatello, Idaho, 75 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 67 per cent, the lowest observed reading being 39 per cent on the 13th and on the 27th; at Modena, 71 per cent, the lowest observed reading being 33 per cent on the 26th; at Grand Junction, Colo., 78 per cent, the lowest observed reading being 44 per cent on the 27th; and at Pocatello, Idaho, 72 per cent, the lowest observed reading being 37 per cent on the 28th.

There was an average of 7 days with .01 inch or more of precipitation over the section; 4 over the northern, 7 over the middle, and 9 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence).

Parhelia.—Henefer, 3.

Halos, lunar.—Levan, 14; Marysville, 14; Pinto, 20.

Haze.—Black Rock, 18; Marysville, 27; Randolph, 28.

Coronae, lunar.—Government Creek, 17; Marysville, 18, 21.

Hail.—Black Rock, 4; La Sal, 4; Levan, 4, 10, 11; Parowan, 1; Plateau, 4.

Sleet.—Coyoto, 3, 4; Henefer, 10; Huntsville, 1, 2; Levan, 2; Parowan, 1, 16; Utah Lake Pumping Station, 2; Vernal, 28.

Halos, solar.—Giles, 14; Government Creek, 14; Henefer, 3, 9, 25; Huntsville, 15; Marysville, 14, 19, 20; Mt. Nebo, 12; Parowan, 27; Pinto, 27.

High winds.—Castle Rock, 8; Deseret, 8, 11; Emery, 11; Giles, 8; Henefer, 8; Meadowville, 8, 11; Mt. Nebo, 8; Nephi, 8; Ogden, 6; Promontory, 11; Provo, 8; Ranch, 9, 10; Salt Lake City, 8; Scipio, 10; Utah Lake Pumping Station, 8, 9, 11; Woodruff, 7.

Fog.—Coyoto, 20, 23; Emery, 3-5, 21; Frisco, 17; Huntsville, 25; Marysville, 1, 3, 4, 22, 28; Meadowville, 26; Mt. Nebo, 3; Parowan, 17; Payson, 16; Pinto, 16, 17, 28; Randolph, 21, 22; St. George, 16, 17; Sunnyside, 22, 23, 28; Tropic, 19; Utah Lake Pumping Station, 3; Woodruff, 11.

CROP CONDITIONS.

The heavy precipitation in the form of rain and moist snow that fell during the early days of the month exercised a most beneficial effect in soaking the ground thoroughly, besides covering it with a layer, more or less thick, of moist snow. Owing to the prevailing high temperature, the snow-covering rapidly disappeared from many of the valleys and lowlands. For this reason some fears were expressed that winter grain and early fruit may have suffered some damage from the severe freeze that occurred during the middle of the month. It is believed, however, that in general, winter grain has withstood the damaging effects of that short period of extreme cold, and that it will enter the growing season in good condition. Some fruit was reported winter-killed, the principal damage apparently being confined to peaches, although the injury from this source may be overestimated and a good crop may be realized. The unseasonably mild weather of the last decade of the month had dried the ground in some localities and placed it in splendid condition to work; and many farmers were taking advantage of this favorable season to begin the spring work of plowing and sowing. The range is generally in good condition, and in many localities in the middle and southern portions of the section was affording ample sustenance to stock, which had wintered well and was in good condition.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF FEBRUARY, 1905.

The large precipitation during the early part of the month produced a decided improvement in the prospects for water during the coming season. Particularly is this true over the southern

half of the section, where the amount of snow and rain was generally far in excess of former years. The exceedingly moist character of the snowfall also contributed in a marked degree to its closely-packed condition, while the severe cold wave that visited the State during the middle of the month froze the snow in the mountain gulches and hollows into a solid mass. Owing to the absence of high winds the snow is, however, not well drifted except in some localities. The unseasonably warm weather since has had an unfavorable effect in rapidly reducing the visible supply of snow in the mountains and foot-hills. In many localities the sides of the hills exposed to the sun's rays are entirely bare. In general, conditions seem to be exactly the reverse of last year, the northern half of the section having a much less supply of snow than last year, although there are many exceptions, while over the southern half the supply is far in excess of former years, and a good supply of water for the coming crop season is assured. Prospects over the northern counties are, however, by no means discouraging, and well-informed observers are of the opinion that, with reasonable economy, the supply of water will be ample for all purposes.

OBSERVERS' REMARKS.

Alpine.—This month was generally a very fine month, and had the appearance of spring during the latter part. Some ground is already being worked for spring sowing.—Thos. B. Whitby.

Black Rock.—The minimum thermometer record was broken on the 13th instant for the time that this observing station has been established, since 1900. A generous amount of precipitation fell and did a great benefit to the range and to cultivated ground.—Willard Burbank.

Emery.—At the close of the month there was about 6 inches of snow on the level ground and was melting rapidly. The nights bring very little frost, and the roads are perfect seas of mud.—H. C. Wickman.

Farmington.—The heavy snow early in the month put lots of snow in the hills and soaked the lowlands nicely. The heavy freeze of the 12th and 13th instant damaged fall-sown grain. The latter part of the month has been spring-like, and plowing and spring grain sowing are under way.—Charles Boylin.

Ft. Duchesne.—The weather was considerably milder at the close of the month than it has been for several years in February. Cecil W. Taylor.

Government Creek.—The finest month in many years.—Walter James.

Green River.—The Green river is rising rapidly.—John T. Farrer, Jr.

Henefer.—We have less snow than we have had for many years; prospects for water are poor.—Wm. Brewer.

Huntsville.—With the exception of a cold snap in the middle of the month lasting four or five days, the month has been very mild, with but very little snowfall.—Lars Petersen.

Kanab.—It is thought that more rain has fallen this month than in any February in our remembrance; it will also be noted that we have had a few cold days.—E. M. Ford.

Levan.—This was a stormy month, with plenty of moisture. The snow is all gone in the valleys.—Wm. Brown.

Marysville.—The month was excessively cloudy, with little or no perceptible wind. Greatest cold since January 17, 1883. The land is too wet for plowing. Snow in the mountains is well packed, and from 7 to 9 feet deep.—Geo. T. Henry.

Meadowville.—The month has been very mild. No wind and very little stormy weather. The snow is nearly all gone from the valleys.—J. S. Moffatt.

Morgan.—Estimated depth of snow in the mountains is 5 feet. It is very solid and will bear a horse. It is well drifted in the gulches.—T. R. G. Welch.

Mt. Nebo.—The first week in the month was cloudy, and the frequent rains that fell in the valley were in the form of snow in the mountains. There was a heavy fall of snow also in the last

ten days in the mountains. Much farm work has been done, and some spring wheat has been sown.—D. C. Walkey.

Nephi.—Spring plowing and grain sowing started on the 20th.—Alfred Madsen.

Payson.—The snow that has fallen is very light, and has no water in it to speak of.—W. C. Wightman.

Pinto.—With the exception of a cold snap in the middle of the month, February was pleasant and mild. There was a great deal of foggy weather.—J. H. Harrison.

Ranch.—A very wet month, with plenty of snow in the mountains for water for irrigation next summer. The snow is very deep on the farming land.—J. W. Seaman.

St. George.—The rains of the month have fallen very gently; no dashing rains, and no snowfall.—James G. Bleak.

Sunnyside.—The weather conditions were cold and stormy up the 17th; after that the weather was generally very mild.—Henry Cullum.

Tropic.—About 4 feet of well-packed snow lies securely stored in the mountains near here. Prospects for an abundance of water are excellent.—Edw. P. Bolton.

Utah Lake Pumping Station.—A remarkable February. Spring plowing and planting of wheat was in progress at the close of the month.—W. A. Knight.

Woodruff.—It is said by old settlers that this is the mildest February ever known, taking the month as a whole.—Thomas Ashton.

LATE JANUARY REPORTS.

Tropic: Mean temperature, 27.8°; departure from the normal, +0.2; maximum, 53 on the 6th; minimum, 1 on the 12th; greatest daily range, 39°. Total precipitation, .90 inch; departure from the normal, —.16 inch; greatest in any 24 consecutive hours, .50 inch on the 11th; total snowfall, 9.0 inches; number of rainy days, 4; clear days, 8; partly cloudy days, 12; cloudy days, 8. Direction of wind, northwest.

Panguitch: Total precipitation, .50 inch; greatest in any 24 consecutive hours, .30 inch on the 12th; total snowfall, 5.0 inches; number of rainy days, 2; clear days, 14; partly cloudy days, none; cloudy days, 16. Direction of wind, southwest.

GREAT SALT LAKE.

The stage of the water on February 1st was .1 foot; on February 15th, .2 foot, and on March 1st, .3 foot. These readings are all above zero.

Comparative Temperature and Precipitation Data for February During the Past Fourteen Years.

Year.	Mean temperature	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	32.4	73	—34	0.77
1893	26.6	70	—32	1.35
1894	20.9	68	—34	1.11
1895	25.5	74	—33	1.25
1896	31.0	74	16	0.46
1897	27.0	63	—21	2.35
1898	29.1	79	21	0.47
1899	28.8	77	—50	1.73
1900	32.2	73	—24	0.57
1901	31.0	75	26	1.90
1902	34.1	74	20	0.87
1903	16.6	67	—39	0.75
1904	34.2	89	26	1.53
1905	30.5	73	—35	1.67

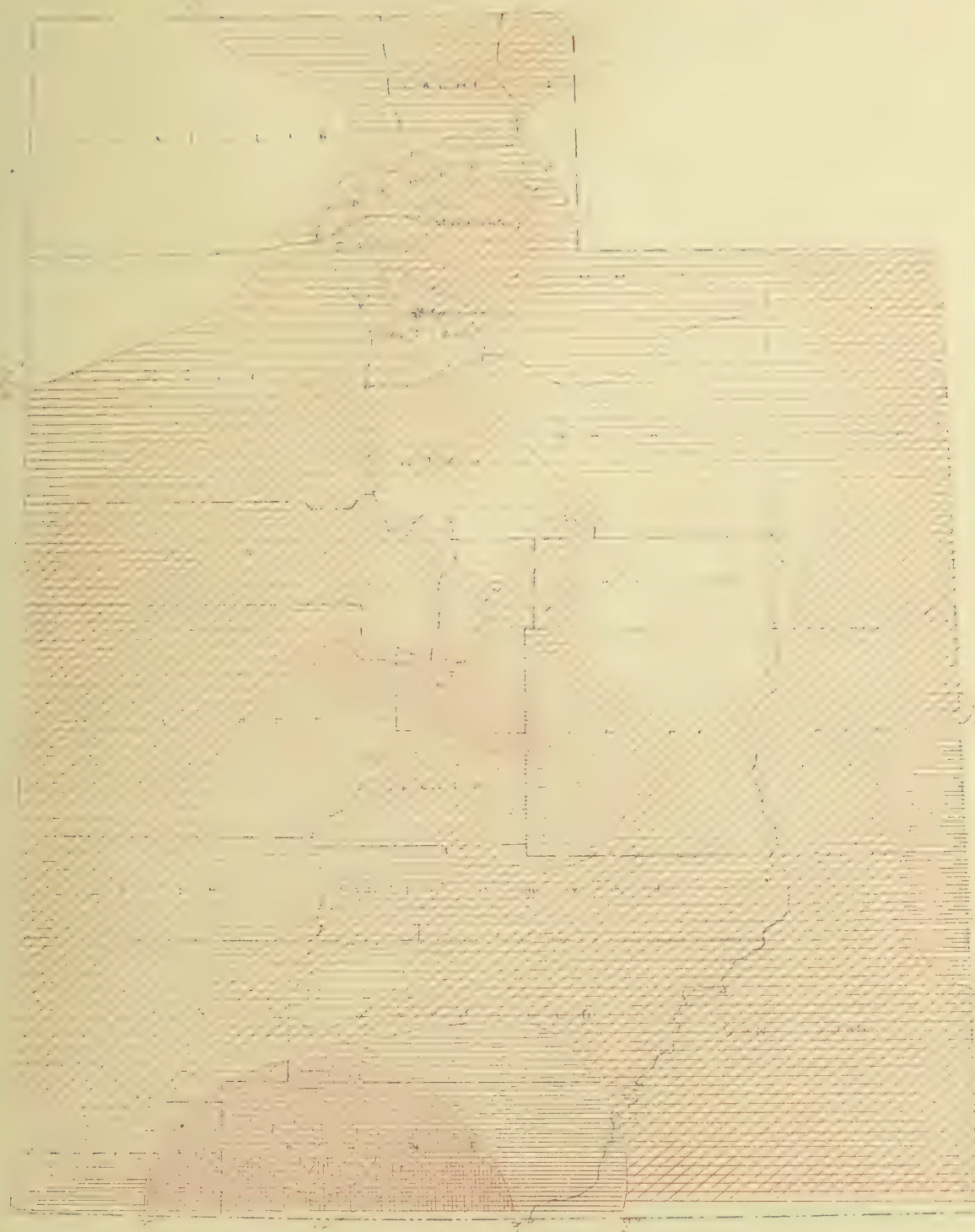
CLIMATOLOGICAL DATA FOR UTAH, FEBRUARY, 1905.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit					Precipitation, in inches					Sky.					Observer
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest daily range	Total	Days with all part of month	Number of clear days	Number of partly cloudy days	Number of overcast days	
NORTHERN.																			
Castle Rock	Utah	4,908	9	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	T. B. Whitby.
Box Elder	Summit	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	David Moore.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. E. Johnson.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Frank Tucker.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Charles Boylin.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Ferdinand Rohricht.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	John Crook.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	William Brewer.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Lars Peterson.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Agent So. Pacific Co.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. M. Jardine.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	J. S. Moffat.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Fred Yeates.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	T. R. G. Welch.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Thomas Adams.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Enoch Fair.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. H. Chevers.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	P. S. McKimmins.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Weather Bureau.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Agent So. Pacific Co.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Wm. Rex.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Francis W. Bailey.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Section Center.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Joseph Robbins.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Agent So. Pacific Co.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	I. J. Elkington.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Joab Collier.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	William Chatterton.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Thomas Ashton.
MIDDLE.																			
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Willard Burbank.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	James Jeffs.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	H. T. Matthews.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	S. W. Weston.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	H. C. Wickman.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	J. J. Starley.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	E. M. Smith.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Walter James.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Weather Bureau.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	J. T. Farrer, Jr.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Owen Sheridan.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	R. H. Spencer.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	William Brown.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. M. Harmon.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	D. C. Walkey.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Web Greene.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	H. D. Allred.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. C. Wightman, Jr.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Caleb Tanner.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	J. M. Lauritzen.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Thomas Memmott.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Agent Rio Grande R. R.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	J. H. Mitchell.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	E. E. Edwards.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. A. Knight.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	E. E. Branch.
SOUTHERN.																			
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	H. R. Antes.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	A. B. Anderson.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	H. J. McCullough.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	W. G. Bleak.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Joseph T. Atkin.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	S. N. Slaughter.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	J. C. White.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Joseph D. Lyman.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	F. W. Gibbons.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	E. M. Ford.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Mrs. G. W. Carpenter.
Box Elder	Box Elder	4,410	25	33.4	+3.6	68	25	12	39	0.60	+1.61	1.88	2.0	3	18	4	0	0	Michael Hansen.
Box Elder																			

NORTHERN.

Bold face figures indicate temperatures below zero.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES



Day of month.

† Precipitation incomplete.

66:00
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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

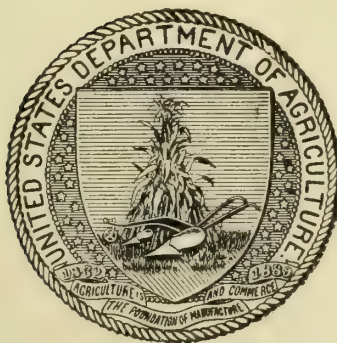
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

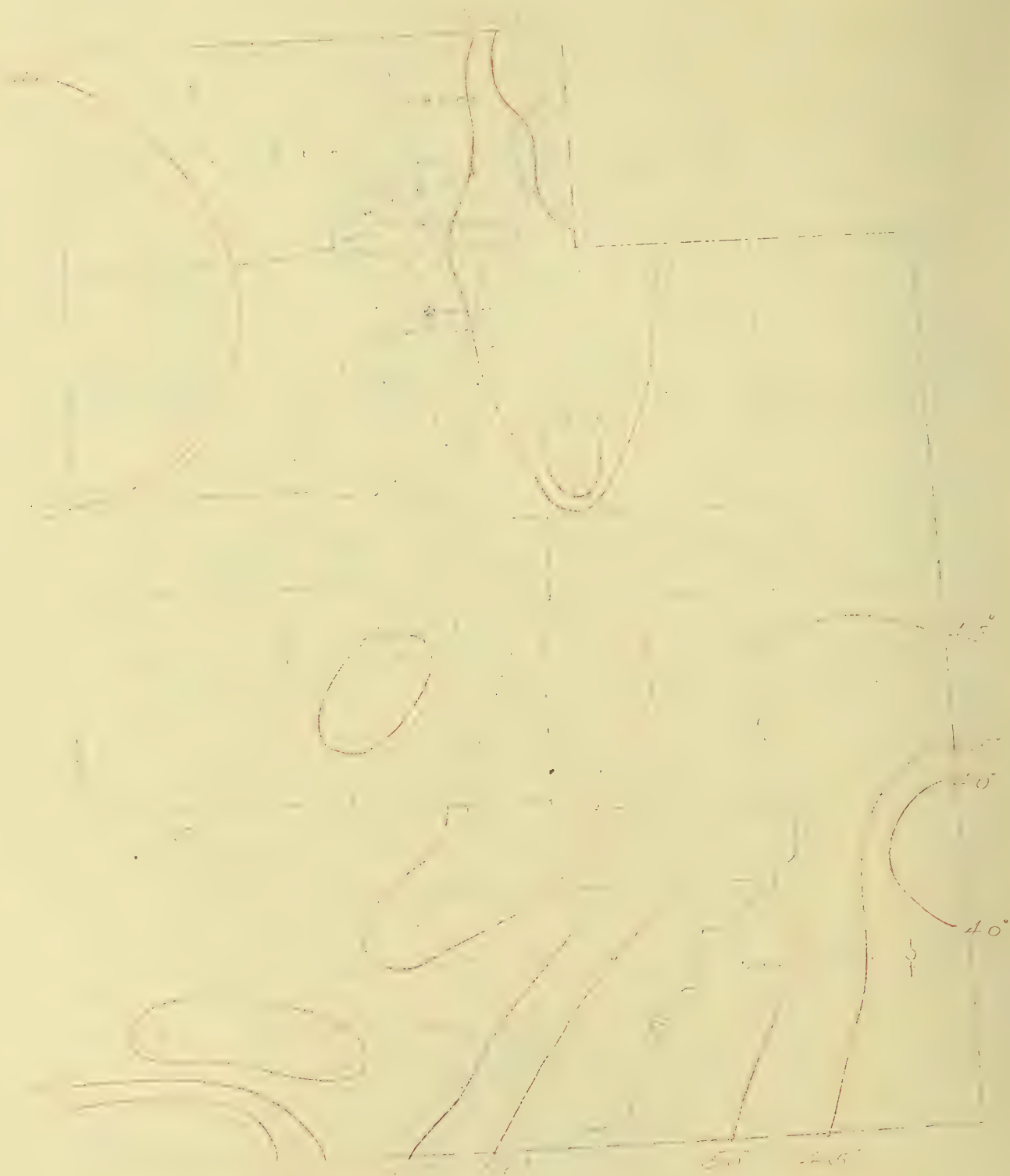
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
APRIL 24, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

March, 1905.

No. 5.

WEATHER.

March was an ideal spring month in every feature. Entering with a fortnight of fair, balmy weather, the earth was speedily released from the winter's frost, thus opening the soil for the absorption of the melting snow, which is frequently lost in the spring run-off over the ice-locked ground. The last decade of March brought copious rains and snows, which the absorbent valleys and bench lands took in to complete saturation. A wave of colder temperature at this time averted snowslides and tended to preserve the mountain snow for future needs.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 61 stations, was 42.2°, or 4.1° above the normal. The highest local monthly mean was 54.2° at Rockville; the lowest was 33.6° at Grayson on the 30th; the lowest was zero at Ibapah on the 31st and at Plateau on the 23rd, giving an absolute range for the section of 83°. The greatest daily range for any station was 54° at Grayson on the 30th. The highest temperatures generally occurred from the 3rd to the 6th and from the 25th to the 27th, and the lowest were recorded from the 28th to the 31st.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 1.76 inches, or 0.27 inch above the normal. The excess was general throughout the section. The greatest monthly amount was 8.00 inches at Alta; the least, 0.17 inch at Escalante. The greatest precipitation in any 24 consecutive hours was 5.0 inches at Alta on the 27th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was north. The total number of miles recorded at Salt Lake City was 4,515; at Modena, 8,440; at Grand Junction, Colo., 3,585; and at Pocatello, Idaho, 6,480. The maximum velocity at Salt Lake City was 34 miles per hour from the northwest on the 26th; at Modena, 50 miles from the west on the 26th; at Grand Junction, Colo., 27 miles from the southwest on the 27th; and at Pocatello, Idaho, 35 miles from the southwest on the 26th.

The average number of clear days for the section during the month was 11; partly cloudy days, 9; cloudy days, 11. Determined from the records of automatic sunshine recorders, Salt Lake City had 57 per cent; Modena 71 per cent; Grand Junction, Colo., 50 per cent; and Pocatello, Idaho, 61 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 59 per cent, the lowest observed reading being 27 per cent on the 5th and on the 7th; at Modena, 58 per cent, the lowest

observed reading being 17 per cent on the 24th; at Grand Junction, Colo., 81 per cent, the lowest observed reading being 31 per cent on the 26th; and at Pocatello, Idaho, 61 per cent, the lowest observed reading being 22 per cent on the 7th.

There was an average of 8 days with .01 inch or more of precipitation; 9 over the northern, 7 over the middle, and 8 over the southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence)

Parhelion.—Snowville, 3.
 Sandstorm.—Aneth, 27, 29.
 Halos, solar.—Henefer, 28; Pinto, 15.
 Haze.—Frisco, 7; Salt Lake City, 3-6, 8, 15.
 Coronae, lunar.—Marysville, 12, 15, 17, 19, 24.
 Rainbow.—Meadowville, 16; Pinto, 4, 5, 16; Salt Lake City, 29.
 Fog, dense.—Black Rock, 7; Pinto, 1; Vernal, 2; Woodruff, 6.
 Halos, lunar.—Levan, 16; Marysville, 14; Mount Nebo, 20; Tropic, 16.
 Earthquake.—Panguitch, 6th; first shock, 8.30 p. m.; second shock, 9 p. m.; 7th, at 4 a. m. Parowan, 23rd, at 1.30 p. m.
 Sleet.—Castle Rock, 21, 22, 24, 26, 27, 30; Fort Duchesne, 22; Frisco, 4, 19; Grayson, 16; Henefer, 21, 23; Huntsville, 21; Levan, 17, 19; Marion, 17-21, 27; Marysville, 19; Meadowville, 24; Mount Nebo, 22, 23; Nephi, 27; Payson, 27; Vernal, 22, 27, 30; Woodruff, 18, 21, 30.
 Hail.—Black Rock, 27, 30; Farmington, 27; Fort Duchesne, 20; Frisco, 19; Giles, 21; Henefer, 23; Kanab, 13, 19; La Sal, 19; Levan, 17, 22, 27, 30; Marion, 7, 27; Marysville, 13, 22, 27; Modena, 13, 27; Morgan, 22, 24; Mount Nebo, 19; Nephi, 22, 24, 27, 30; Payson, 18, 24, 27; Pinto, 14, 30, 31; Provo, 18, 22; St. George, 13; Salt Lake City, 11, 24; Tropic, 19, 27.
 Thunderstorms.—Castle Rock, 24; Deseret, 26; Emery, 5; Farmington, 22, 24; Fort Duchesne, 19; Giles, 18; Government Creek, 5; Henefer, 23; Huntsville, 24; Kanab, 4, 13, 19; Marysville, 27; Modena, 5, 27; Morgan, 24, 26; Nephi, 18, 22; Payson, 18, 19; Pinto, 5, 14; Provo, 22, 26; St. George, 13; Salt Lake City, 11, 22, 24, 26, 29; Tropic, 4; Vernal, 18; Utah Lake Pumping Station, 22, 24; Woodruff, 16, 24.
 High winds.—Alta, 22, 29; Aneth, 7, 26, 29-31; Black Rock, 11, 21, 29; Cisco, 27, 31; Deseret, 7, 8, 11, 12, 24, 26, 27, 29-31; Frisco, 11-13; Garrison, 7, 11, 24, 29; Giles, 27; Government Creek, 11, 29; Grayson, 7, 27; Henefer, 22, 24, 26, 27; Huntsville, 28; La Sal, 27; Levan, 26; Marion, 29; Marysville, 7, 13, 29-31; Moab, 7, 26, 27; Modena, 5, 7, 8, 10-13, 16, 17, 19, 21, 22, 24, 26, 27, 29, 31; Ogden, 29; Mount Nebo, 7, 11-13, 24, 26; Pinto, 31; Ranch, 26; St. George, 7, 16, 26; Scipio, 30; Toole, 29, 30; Tropic, 24, 26, 31; Utah Lake Pumping Station, 7, 26, 29.

CROP CONDITIONS.

Reports from all counties regarding the opening crop season were very favorable. During the first two weeks of March the farming population throughout the State was in the fields preparing the ground and sowing spring grain. Outdoor work was exceptionally well advanced when the laborers were driven from the fields during the latter part of the month by the soaking rains and snows. Nearly all of the spring grain was sown, with greatly increased acreage, and some of it was coming up well. Heavy snowfall protected the green grain from the few cold nights. Winter wheat, also, was in flourishing condition. Horticulturists generally regarded the fruit crop as safe, except some varieties of peaches, and reported a conspicuous advancement in the swelling of buds. The range responded splendidly to the sudden opening of the soil and the timely precipitation following, and had already brought many herds out for pasturage. Stock was thrifty, and extensive preparations were being made for early sheep shearing.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF MARCH, 1905.

In this, the closing Snowfall Bulletin of the season, the agriculturist will find much encouragement. Despite the rapid melting of early winter snows during the warm weather of early March, the supply now promises ample for all users. During the last decade of March frequent hard snowstorms swept over the State and completely saturated the farm lands of the valleys and benches, and piled new snow high on top of the snow already in the mountains, which, owing to its extreme compactness, has endured since early winter. By steady thawing and settling, heavy bodies of snow have accumulated, which will doubtless be well retained for late summer use. Many sunny hillsides are bare, and the snow line is creeping slowly up the sides of the snow-covered ranges, sustaining a well saturated condition in the adjacent valleys, but towards the mountain summits the snow supply is becoming more concentrated and compact in the narrow gulches.

PHENOLOGICAL DATA; LEVAN, JUAB COUNTY.

(Wm. Brown, Observer).

An important link in the chain of valleys that connects Utah's Dixie at the south with her capital city near the north is the slender Juab valley, lying about midway down the State.

Though its vast orchards and grain fields are deprived of a goodly share of their sunshine by the morning shadows of the Gunnison Plateau and by the early evening setting of the sun behind the Canyon Mountains, they are by nature quite well watered throughout the season and protected from severe weather so effectually that these staples are nurtured to healthy maturity with rare exceptions, as is indicated by the data collected at the city of Levan, near the southern end of the valley.

Early in April fruit trees and berry vines begin to shoot their first leaves, though the elevation of this valley is 5,000 feet above the sea, and its seasons might reasonably be expected to be many weeks shorter at its latitude of 40° than at this latitude at sea level. During the last week of April all fruit trees begin to blossom, and early in May fruit begins to form. Cherries and berries ripen during the latter part of June, and apples, pears, peaches and plums ripen as early as July and August, later varieties being gathered in September and October. In general the Juab valley fruit and berries are of a good quality, and the quantity per acre is steadily advancing under the application of modern horticultural methods.

The grain fields stretching from the foot of Mt. Nebo at the north throughout the entire length of the valley are convincing proof of the existence of Utah's many mountain granaries. Wheat, oats and rye, mostly all fall-sown, turn green with the first grass of spring and reach maturity in late July and early August. These crops are nearly always harvested in fine condition because of the light precipitation during the harvest season. Not much corn is grown, as the fields are utilized by more valuable and drought-resisting crops. Corn is planted late in May, and is ready for the crib late in September and early October. An excellent crop was secured in 1904.

Alfalfa matures two good crops, with considerable pasturage from the third growth. The first crop is cut late in June, and the second two months later. Irish potatoes are ready for table use early in July, the later varieties maturing in the fore part of October. Accidental spring frosts sometimes make great inroads on apricots, potatoes, tomatoes and melons, and consequently these crops are not always certain.

Irrigation water is carried to easy access for the farmer by the meanderings of Chicken Creek across the southern end of the valley, and, additionally aided by an irrigation system of increasing importance, the farmers here are being numbered among the enterprising of the State.

CORRECTIONS TO DECEMBER, 1904, REPORT.

Page 5: Meadowville—Mean temperature recorded as 26.0° should be 25.9°. Castle Dale—Mean temperature recorded 22.6° should be 22.8°. Deseret—Mean temperature recorded 26.6° should be 26.7°. Government Creek—Mean temperature recorded 29.6°, should be 29.8°. Ranch—Mean temperature recorded 31.1°, should be 31.2°. Ogden No. 1—Mean temperature recorded 29.8°, should be 30.0°. Plateau—Total precipitation recorded .60, should be .87.

Page 6: Meadowville—Minimum temperature on the 18th recorded 31°, should be 23°; maximum on the 23rd recorded 31°, should be 34°; maximum on the 26th recorded 22°, should be 25°; minimum on the 31st recorded 31°, should be 28°; mean maximum recorded 36.1°, should be 36.3°; mean minimum recorded 15.9°, should be 15.5°. Ogden No. 1—Mean maximum recorded 38.2°, should be 38.5°. Castle Dale—Maximum on the 31st recorded 32°, should be 42°; mean maximum recorded 42.2°, should be 42.5°. Deseret—Maximum on the 25th recorded 29°, should be 34°; mean maximum recorded 44.5°, should be 44.7°. Government Creek—Maximum on the 25th recorded 25°, should be 29°; mean maximum recorded 40.2°, should be 40.4°. Levan—Maximum on the 27th recorded 9°, should be 11°. Loa—Maximum on the 25th recorded 30°, should be 34°; minimum on the same date recorded 12°, should be 10°; minimum on the 26th recorded 10°, should be -10°; minimum on the 27th recorded 14°, should be -14°; minimum on the 28th recorded 12°, should be -12°; minimum on the 29th recorded 8°, should be -8°; mean maximum recorded 40.6°, should be 40.7°; mean minimum recorded 8.3°, should be 8.0°. Ranch—Mean maximum recorded 49.0°, should be 49.2°.

Page 8: Aneth—Precipitation on the 25th blank, should be T.

LATE FEBRUARY REPORTS.

Garrison: Mean temperature, 31.2°; highest, 56° on the 23rd and 26th; lowest, -22° on the 12th; greatest daily range, 3°. Total precipitation, 1.30 inches; greatest in any 24 consecutive hours, .50 inch on the 9-10th; total snowfall, 9.0 inches; days with .01 or more precipitation, 3; clear days, 15; partly cloudy days, 2; cloudy days, 11.

Blacksmith's Fork: Total precipitation, 1.20 inches; greatest in any 24 consecutive hours, .70 inch on the 1st; total snowfall, 12.0 inches; days with .01 inch or more precipitation, 3; cloudy days, 24; partly cloudy days, none; cloudy days, 4.

GREAT SALT LAKE.

The reading of the gauge on March 1 was +0.3; up to March 15 it was practically stationary, and on April 1 the reading was +0.6, showing a rise for the month of 0.3 of a foot.

Comparative Temperature and Precipitation Data for March During the Past Fourteen Years.

Year	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	40.0	83	4	1.5
1893	35.6	87	-19	2.0
1894	36.6	85	-22	1.6
1895	37.0	87	-15	1.2
1896	38.0	88	-7	0.9
1897	32.0	79	-16	2.2
1898	31.2	80	-14	1.2
1899	38.5	84	-3	2.1
1900	43.9	86	6	0.1
1901	36.8	78	2	0.8
1902	34.9	73	-9	1.5
1903	37.3	80	-32	1.1
1904	39.9	90	-10	2.3
1905	42.2	83	0	1.7

CLIMATOLOGICAL DATA FOR UTAH, MARCH, 1905.

Sections and stations		County	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches						Sky						Collector
					Mean	Maximum of the month	Minimum	Days	Frost	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days				
NORTHERN.																							
Alpine	Utah	4,900	9								3.47	4.15	1.11									T. B. White.	
Alpine Rock	Summit										1.07		0.43	5.5								David Moore.	
Box Elder	Box Elder	4,400	25	44.9	+4.2						2.02	+0.69	0.49	6.0								W. E. Johnson.	
Box Elder	Box Elder	4,400	25	44.9	+4.2						2.02	+0.69	0.49	6.0								Frank Tucker.	
Box Elder	Box Elder	4,400	25	44.1	+5.8						4.18	+1.95	0.86									Charles C. Smith.	
Box Elder	Box Elder	4,400	25	42.1	+0.9						3.88	+0.91	0.37									William C. Robinson.	
Box Elder	Box Elder	4,400	25	40.0	+0.2						1.60		0.32									John C. Smith.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									William Brewer.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Larry Peterson.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Agent So. Pac. Co.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									W. M. Jardine.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									J. S. Hutton.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Frederick Smith.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									T. R. G. Webb.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Thomas James.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Ernest James.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									W. H. Chevers.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									P. S. McKimmins.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Weather Bureau.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Agent So. Pacific Co.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Wm. Rex.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Francis W. Bailey.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Section Center.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Joseph K. Smith.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Agent So. Pacific Co.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									L. J. Elkington.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Joab Collier.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									William Claiborne.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25									Thomas Ashton.	
Box Elder	Box Elder	4,400	25	39.7	+5.8						1.67		0.25										
Averages											2.09		0.58	10.9									
MIDDLE.																							
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Willard Burbank.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								James Jeff.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								H. T. Matthews.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								S. W. Weir.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								H. C. Wickman.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								J. J. Starley.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								E. M. Smith.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Walter James.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Weather Bureau.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								J. T. Farrer, Jr.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Green Sheridan.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								R. H. Spencer.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								William Brown.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								W. M. Harmon.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								D. C. Walkey.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Web Greene.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								H. D. Alfred.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								W. C. Wightman, Jr.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Caleb Tanner.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								J. M. Lauritzen.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Thomas Memmott.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								Agent Rio Grande R. R.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								J. H. Mitchell.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								E. E. Edwards.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								W. A. Knight.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0								E. E. Branch.	
Black Rock-T3...	Millard	4,874	5	44.1	+3.7						1.71	+0.64	0.48	6.0									
Averages											2.22	+0.44											
SOUTHERN.																							
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			H. R. Antes.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			A. B. Anderson.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			H. J. McCullough.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			W. G. Bleak.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			Joseph T. Atkin.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			S. N. Slaughter.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			J. C. White.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			Joseph D. Lyman.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			F. W. Gibbons.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			E. M. Ford.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			Mrs. G. W. Carpenter.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			Michael Hansen.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			G. T. Henry.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			R. W. Dotson.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			Henry Crouse.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7	11			Weather Bureau.	
Albany	San Juan	4,800	8	47.9	+3.3						1.02	+0.41	0.20			11	13	7					

At this station thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs. Boldface figures indicate temperatures below zero.

TOTAL OBLIGATIONS FOR THE MONTH



SCALE OF SYMBOLS IN INCHES



Sections and stations.	Day of month.																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine				T.								.06					T.		.41			.56		.26		1.14	.09		.98					
Alta																	1.06	1.40		T.	.60	1.90		.20		.40	1.50	.35	.25	.30				
Blacksmith's Fork																	.20	.43		.20	.11		.12											
Castle Rock								.04				.10						.48	.49	.09	.10	.30												
Corinne																		.12	.03		.12	.04		.05										
Evanston, Wyo				T.								.07					.56	.10	.11	.32	.02	.37		.15		.10	.46		.46		.12			
Farmington												.56	.10	.11			.20	.52	.32	.02	.37		.15		.25	.37	.20		.80					
Fr. Duchesne												.04	T.	.12	.14	T.	.19				.30	.29		T.						.10				
Heber										.26							.23	.21		.18	.07		.08		.32	.14			.20					
Honefer				T.								.20	.03	.08	T.		.01	.03	.17		.11	.25		.23		.24	.16	.02	T.	.14				
Huntsville												T.	.18					.50	.22		.12	.20		.32		.43	T.		.22	T.				
Kelton													.12	.12								.05				.05								
Logan										.02		.15			.08	.61		.20		.25	.20	.25		.44					.02					
Marion				T.			T.						.11	T.		.25		.28	.30	.32	.06	.16		.09		.05	.31	.14	T.	.26				
Nia lowville							T.										T.	.20		.30	*	.55		.20		.20								
Midville					.04							T.	.02	.05			T.	.12	.28	.20	*	.13	.34		T.		.14	T.	T.	.20				
Morgan							T.					T.	.12				.08	.18	.09	*	.06		.26		.40	.21	.18	T.	.33					
Oakley, Idaho												T.	.10	T.	.51	.12	.25				.25								.40					
Ogden No. 1												T.	.14	.06			.05	.14	.56	.29		.26		.15		.20	.22	T.	1.20					

† Precipitation incomplete.

861 05
JNII
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

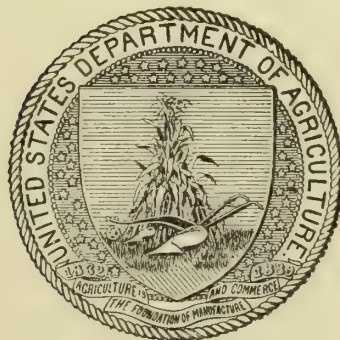
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

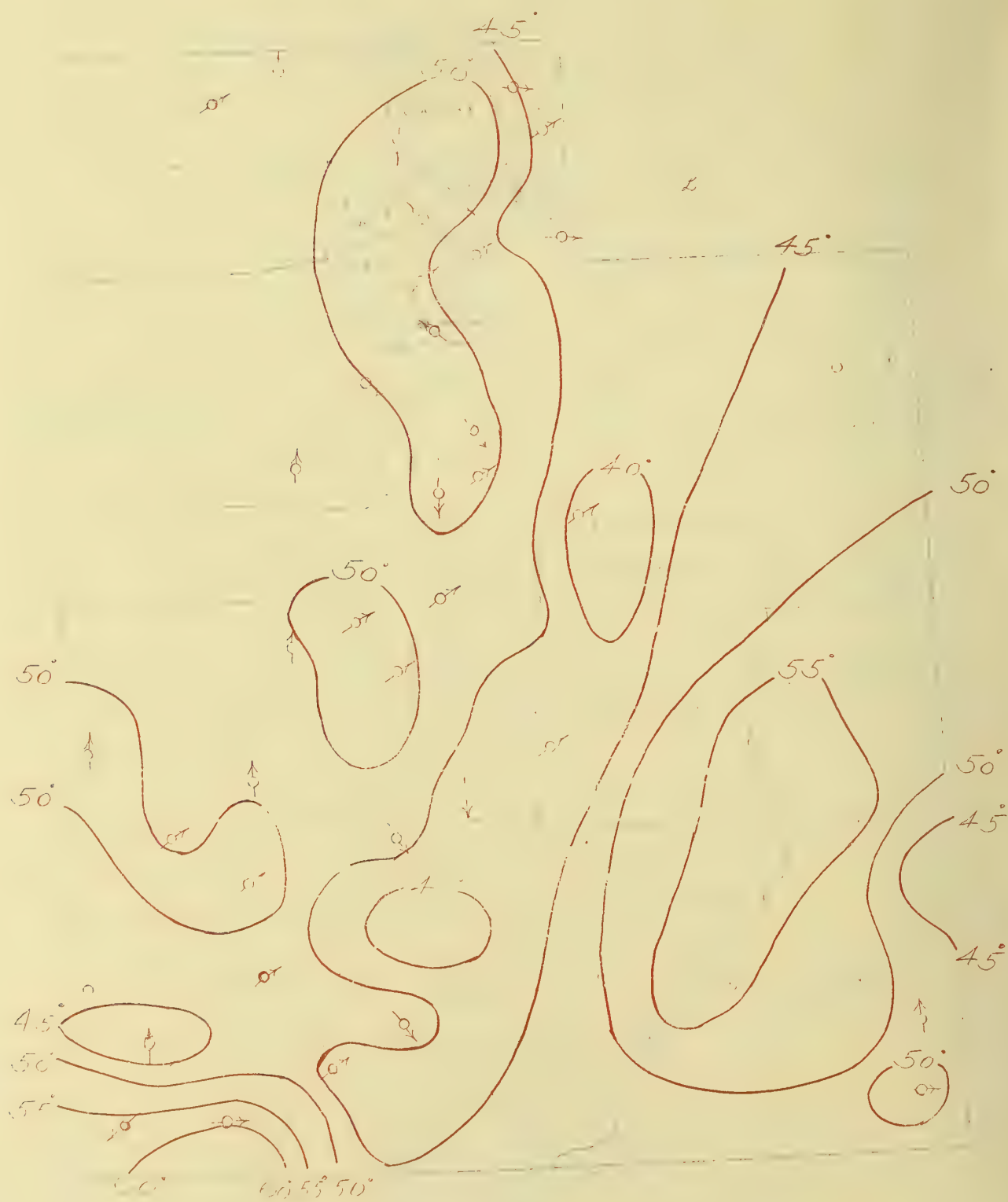
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MAY 25, 1905

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

No. VII.

April, 1905.

No. 6

WEATHER.

The noteworthy feature of the weather during the month was severe local storm that occurred in the vicinity of Ogden on night of the 23rd, during which the wind attained an extraordinary velocity. Aside from this occurrence, the weather during the month was cloudy and changeable with frequent thunderstorms, thus presenting the usual April characteristics. Considerable moist snow fell and high winds were frequent.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 48.7°, or 1.0° above the normal. The best local monthly mean was 60.4° at Rockville; the lowest 38.5° at Coyoto. The highest temperature recorded was 88° at Grayson on the 19th; the lowest was 9° at Government Creek on the 1st, giving an absolute range for the section of 79°. The latest daily range for any station was 57° at Grayson on the 1st and at Scipio on the 6th. The highest temperatures generally occurred on the 29th and 30th, and the lowest on the 1st and 4th.

PRECIPITATION.

The average precipitation, determined from the reports of 72 stations, was 1.47 inches, or 0.31 inch above the normal. There was a decided excess over the northern and middle portions, and a slight deficiency over the southern part. The greatest monthly amount was 3.98 inches at Alpine; the least, 0.25 inch at Mount Creek. The greatest precipitation in any 24 consecutive days was 1.60 inches at Alpine on the 10th. Considerable moist snow fell over the section during the month, the heaviest fall occurring over the southern portion.

WIND AND WEATHER.

The prevailing direction of the wind for the section was south-southwest. The total number of miles recorded at Salt Lake City was 91; at Modena, 8,201; at Grand Junction, Colo., 4,051; and at Pocatello, Idaho, 6,417. The maximum velocity at Salt Lake City was 38 miles per hour from the northwest on the 13th; at Modena, 50 miles from the west on the 18th; at Grand Junction, Colo., 24 miles from the south on the 16th; and at Pocatello, Idaho, 36 miles from the southwest on the 13th.

The average number of clear days for the section during the month was 13; partly cloudy days, 9; cloudy days, 8. Determined from the records of automatic sunshine recorders, Salt

Lake City had 56 per cent; Modena 82 per cent; Grand Junction, Colo., 62 per cent; and Pocatello, Idaho, 67 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 44 per cent, the lowest observed reading being 12 per cent on the 4th and on the 11th; at Modena, 51 per cent, the lowest observed reading being 6 per cent on the 6th; at Grand Junction, Colo., 59 per cent, the lowest observed reading being 25 per cent on the 27th and 28th; and at Pocatello, Idaho, 51 per cent, the lowest observed reading being 16 per cent on the 5th.

There was an average of 6 days with .01 inch or more of precipitation; 7 over the northern, 5 over the middle, and 6 over the southern portion.

MISCELLANEOUS PHENOMENA.

Stations and dates of occurrence.

Halos, lunar.—Government Creek, 15, 16; Marion, 21; Modena, 16; Ranch, 3, 17, 20.

Fog, dense.—Deseret, 12; Frisco, 22; Grayson, 13; Marion, 21; Snowville, 22; Sunnyside, 16, 22.

Frost, killing.—Black Rock, 4; Frisco, 18, 19, 30; Giles, 4; Kanab, 20; Levan, 1, 3-5; Mount Nebo, 1, 3-5.

Halos, solar.—Henefer, 15, 18; Marysville, 17; Mount Nebo, 22; Morgan, 26; Pinto, 17, 21; Randolph, 16, 21; Woodruff, 21.

Sleet.—Fort Duchesne, 12; Frisco, 9; Levan, 10, 11; Meadowville, 16, 19; Nephi, 19; Randolph, 10; Sunnyside, 19; Vernal 10; Woodruff, 19.

Hail.—Aneth, 1; Black Rock, 18; Blacksmith's Fork, 9; Castle Rock, 26; Fort Duchesne, 19; La Sal, 19; Marysville, 12, 19, 25; Modena, 9; Morgan, 19; Nephi, 16, 18, 19; Parowan, 19; Provo, 18; Randolph, 9; Salt Lake City, 9; Tropic, 1, 9, 19, 22, 23; Vernal, 19.

High winds.—Alta, 30; Aneth, 17, 18, 20; Deseret, 7-9, 13, 18, 19, 26, 29, 30; Farmington, 10, 11, 23, 24; Fort Duchesne, 14, 16, 23, 27, 30; Garrison, 18, 29, 30; Grayson, 19; Government Creek, 19; Henefer, 18, 23, 24; Huntsville, 10, 23; La Sal, 19, 30; Marion, 1, 9; Marysville, 1; Meadowville, 27, 29; Mount Nebo, 8, 30; Morgan, 19, 20, 26, 30; Oak City, 14; Ogden, 11, 23; Ranch, 30; Salina, 18; St. George, 1, 18.

Thunderstorms.—Aneth, 12, 26; Black Rock, 29; Castle Rock, 9, 14, 26; Coyoto, 17; Deseret, 9, 18; Emery, 18; Farmington, 9, 13, 18, 19, 30; Frisco, 9; Giles, 10, 18; Grayson, 10, 22; Kanab, 9, 10, 18; Heber, 26; Henefer, 9, 14, 19, 20, 26, 30; Huntsville, 9, 19, 26; La Sal, 8; Levan, 9, 16, 18; Marion, 9, 14, 19, 20; Marysville, 18; Meadowville, 9, 26; Moab, 8, 19, 26; Minersville, 18, 22; Modena, 25; Mount Nebo, 16; Morgan, 19, 20, 26, 30; Nephi, 16, 18, 19; Ogden, 26; Parowan, 9, 19; Payson, 9, 21; Pinto, 8, 9, 18, 22; Provo, 18; Randolph, 30; Snowville, 22; Tropic, 18, 26, 29; Vernal, 9; Woodruff, 9; Salt Lake City, 9, 15, 19, 26, 30.

CROP CONDITIONS.

The many wet periods that occurred during the month had the effect of seriously retarding all farm work, and by the close seeding was still in progress, though nearing completion. However, the ground was thoroughly soaked and the precipitation was of marked benefit, though the immediate effect was detrimental. Notwithstanding the cloudiness, all crops made rapid growth. Fall and early sown spring grain was coming up well. Alfalfa

was in various stages of growth, according to locality; from one place in the extreme southern portion of the section, it was reported as blooming and being cut for hay. Sugar beets were in fine condition, and seeding was making as rapid advancement as the wet condition of the soil allowed. Fruit was backward, though generally in good condition, with the exception of peaches and apricots, which have suffered severe damage from the abnormally cold weather in February. The frequent storms during the month exercised a particularly beneficial effect on the range, and at the close was affording ample sustenance to stock, which was in thriving condition. Sheep were nearly all driven to the summer ranges, and shearing was practically completed; the wool clip was excellent.

THE LOCAL STORM AT OGDEN.

The storm near the city of Ogden on the night of the 23rd was unusually severe. A rough estimate of the great force the wind attained at the height of the storm can be formed from the fact that the roofs of several large warehouses were blown off and many smaller buildings leveled. On the 26th another storm, though of more moderate character as regards wind movement, occurred that, however, was accompanied by very severe lightning, and that played havoc with the wires conveying the electric current to Salt Lake City and Ogden, leaving them for a time in complete darkness. Our co-operative observer at Ogden, Mr. Enoch Farr, gives the following brief account of these storms: "On the night of the 23rd, and continuing throughout the following day, a severe mountain wind did considerable damage to the fruit. On the evening of the 26th we had an electrical storm, accompanied by severe hail, that was also detrimental to the fruit. Lightning damaged the electric light plant, and burned out my transformers."

OBSERVERS' REMARKS.

Aneth.—There has been an unusual amount of precipitation during the month for this region.—H. R. Antes.

Black Rock.—A fair April month; less wind than usual, and not very cold; more water for irrigation than ordinarily.—Willard Burbank.

Farmington.—A good growing month; spring crops are looking well; fruit in full bloom, but the high east winds damaged it somewhat; lucerne looking well.—Charles Boylin.

Fort Duchesne.—Weather during month very dry and windy, but cool.—John J. Pempey.

Giles.—Prospects for fruit good; range fine, and stock doing well.—John C. White.

Government Creek.—A very cool month, and all crops are late; peaches frost-killed, and other fruit considerably injured.—Walter James.

Green River.—River rising gradually; apricots and peaches good size; oats up.—J. T. Farrer, Jr.

Kanab.—The frost on the 20th did little damage.—E. M. Ford.

Heber.—An average pleasant month, but with many stormy days, causing farming operations to be delayed.—John Crook.

Henefer.—A remarkable month for rains; crops doing well; range in fine condition.—Wm. Brewer.

Huntsville.—The month, with the exception of the first week, has been very stormy, delaying spring work, but has been benefi-

cial in holding back what little snow there was in the mountains, and also by adding a little more to the scant supply.—Lars Petersen.

Levan.—Considerable snow has been piled up in the mountains during the month.—Wm. Brown.

Marion.—Currant bushes were coming into leaf at the close of the month.—James Woolstenhulme.

Marysville.—Month generally cloudy, with considerable moisture; vegetation backward; irrigation water plentiful.—John W. Henry.

Meadowville.—This has been a model month for the farmers and the range; grain, lucerne and the range never looked better at this time of the year.—J. S. Moffat.

Mount Nebo.—The first half of the month was cold, but the latter half was favorable for rapid growth; crops of all kinds are making good advancement; range pasture good; fruit in bloom, with prospects for good crops.—D. C. Walkey.

Ogden.—On the 23rd-24th winds did considerable damage to fruit and buildings.—Enoch Farr.

Pinto.—The month has been favorable for young grain and range; early grain has made good growth.—J. H. Hanson.

Ranch.—The grain that has come up is a good stand; the meadows show a good growth, and vegetation is looking well.—J. W. Seaman.

Scipio.—Though cold and stormy, the month has been very favorable for crops; grain, lucerne and range looking well.—Thos. Memmott.

St. George.—Fine growing weather; wheat in the boot; feed on cattle ranges good.—James G. Bleak.

Vernal.—On the 10th occurred the worst storm of the winter; sleet and snow, accompanied by high winds, fell all day.—Joab Collier.

CORRECTIONS TO FEBRUARY REPORT.

Page 5: Saltair Beach—Total snowfall recorded 0.1 inch, should be 1.0. Tooele—Highest temperature recorded on the 22nd, should be 23rd. Soldier Summit—Number of days missing recorded T 2, should be T 3. Pinto—Total precipitation recorded 1.60 inches, should be 1.88.

Page 8: Pinto—Precipitation on the 8th blank, should be .28; total precipitation recorded 1.60, should be 1.88.

GREAT SALT LAKE.

The stage of the water on April 1st was 0.6 foot, and on April 15th and May 1st 0.7 foot above the zero of the gauge.

Comparative Temperature and Precipitation Data for April During the Past Fourteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	46.8	87	11	1.06
1893	44.4	88	1	1.15
1894	45.8	91	4	0.86
1895	49.2	94	5	0.58
1896	41.0	87	— 1	1.07
1897	47.0	93	6	0.89
1898	51.5	98	8	0.72
1899	48.2	90	11	0.58
1900	45.7	88	10	2.46
1901	46.2	89	0	0.69
1902	48.5	94	7	1.16
1903	46.0	95	4	1.01
1904	48.2	94	10	0.76
1905	48.7	88	9	1.47

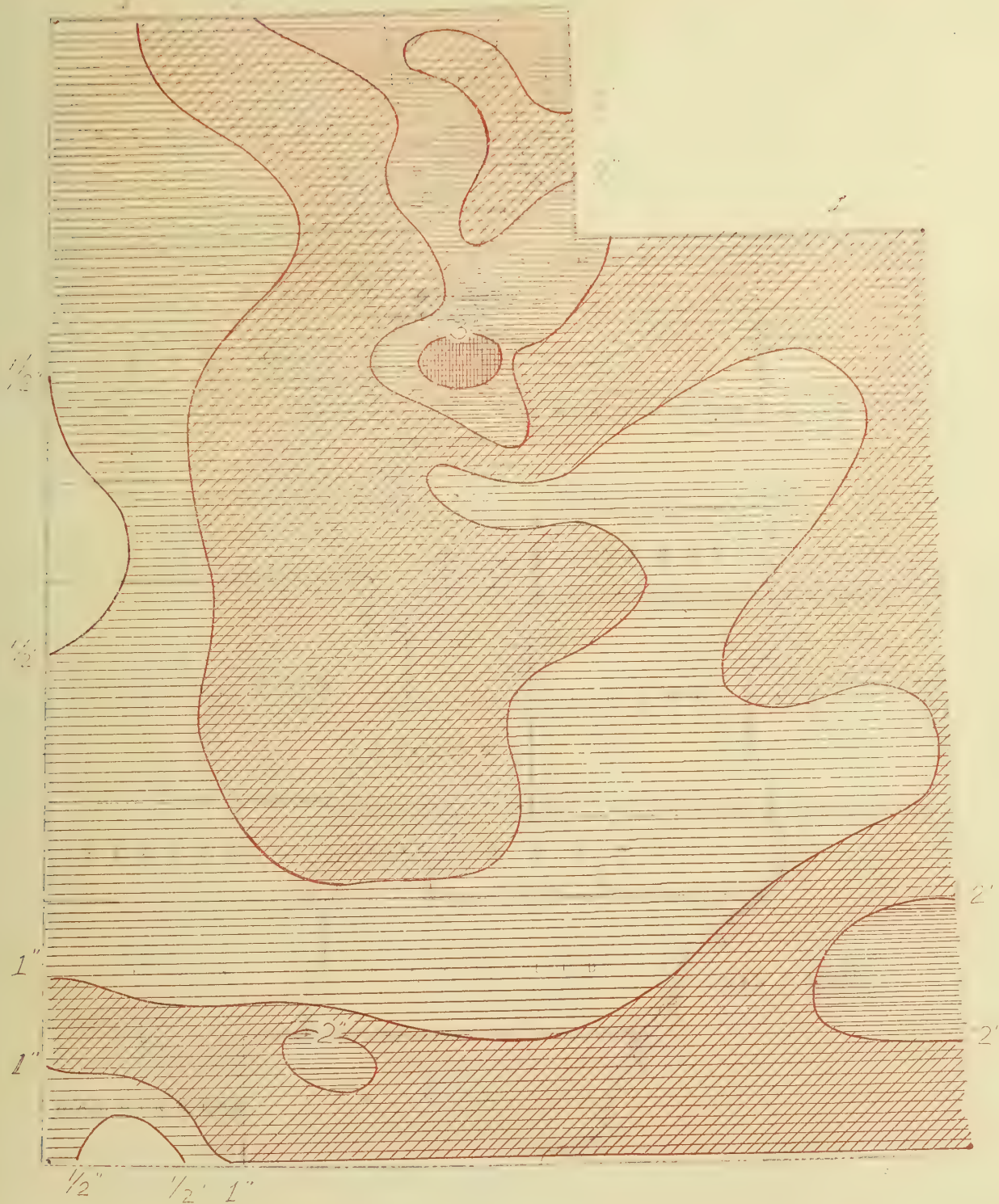
CLIMATOLOGICAL DATA FOR UTAH, APRIL, 1905.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches.						Sky.			Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow-water equivalent.	Days with 0.1 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alpine	Utah	4,900	9								3.08	+2.10	1.60	.....	5				T. B. Whitty.
Black Rock	Summit	11,240	35	51.4	+1.0	78	20	23	1	15	1.62	+0.54	0.46	4.0	10	13	5	12	W.	
Canonville	Box Elder	4,240	35	51.4	+1.0	78	20	23	1	15	1.62	+0.54	0.46	4.0	10	13	5	12	W.	
Clinton, Wyo.	Uinta	6,959	9	39.8	+1.6	65	20	15	1	38	1.71	+0.34	0.44	5.0	9	16	9	5	SW.	
Drummond	Davis	1,207	5	49.5	+1.9	74	30	20	1	40	2.08	-0.47	0.50	T.	6	11	11	5	SW.	
Duchesne	Uinta	5,000	17	48.0	-0.1	79	30	21	4	50	0.69	+0.10	0.55	0.0	6	6	21	3	SW.	
Fort T3	Wasatch	5,666	12	46.2	+2.3	72	20	16	4	47	2.06	+0.82	1.05	0.0	11	6	2	13	SW.	
Heber	Summit	5,301	6	45.4	+2.2	71	20	16	4	51	2.45	+1.08	0.60	3.0	12	15	5	10	W.	
Henrieville	Weber	5,000	10								2.51	+0.74	0.82	1.0	7	14	10	6	nw.	
Idaho	Box Elder	4,230	27	47.2	-2.8	70	7	14	2	14	1.60	-0.20	0.40	0.0	7	13	13	4	SW.	
Idaho	CACHE	4,507	14	51.5	+4.7	79	27	23	1	42	1.60	-0.20	0.40	0.0	7	13	13	4	SW.	
Idaho	Box Elder	4,230	27	47.2	-2.8	70	7	14	2	14	1.60	-0.20	0.40	0.0	7	13	13	4	SW.	
Idaho	Rich	6,206	6	42.8	+2.5	66	30	15	1	35	2.10	+0.30	0.60	2.0	8	18	2	10	W.	
Idaho	CACHE	4,507	14	51.5	+4.7	79	27	23	1	42	1.60	-0.20	0.40	0.0	7	13	13	4	SW.	
Idaho	Morgan	5,680	2	15.8	.....	72	20	19	1	47	1.38	+0.36	1.5	9	17	8	5	SW.	
Idaho	Cassida	4,101	12	49.6	+3.1	75	20	12	44	0.91	+0.03	0.45	0.0	3	8	10	12	SW.		
Idaho	Weber	4,310	4	51.4	.....	78	8	23	1	32	2.5	.....	0.70	0.0	7	18	5	3	se.
Idaho	Weber	4,310	35	50.7	-1.7	78	20	30	1	.....	2.14	+0.76	0.66	0.0	2	15	1	14	W & S
Idaho	Bannock	4,183	5	18.2	+1.4	72	6	22	1	31	1.33	-0.18	0.37	1.0	10	11	8	11	W.	
Idaho	Box Elder	4,913	35								2.22	.....	0.47	.....	9	16	5	9	nesw
Idaho	Rich			52.8	.....	72	29	30	4	31	1.38	.....	0.35	.....	6	10	11	11	se.
Idaho	Salt Lake	4,306	31	51.7	+2.2	74	29	25	1	32	1.70	-0.51	0.54	T.	10	8	11	11	se.	
Idaho	Salt Lake	4,306	15	45.7	-0.5	72	29	25	1	32	1.70	-0.51	0.54	T.	10	8	11	11	se.	
Idaho	Box Elder	4,306	15	45.7	-0.5	72	29	25	1	32	1.70	-0.51	0.54	T.	10	8	11	11	se.	
Idaho	Tooele	4,900	9	49.8	+1.3	75	29	19	1	37	1.88	+0.12	1.12	0.0	5	10	8	6	S.	
Idaho	Uinta		10	47.4	-1.1	77	30	20	11	30	1.22	+0.54	1.00	4.0	5	11	12	7	ne.	
Idaho	Oneida	4,460	7	47.4	+0.7	72	6	20	4	44	2.20	+0.50	0.42	1.0	10	12	7	11	S-SW	
Idaho	Rich	6,500	8	41.5	+2.5	70	8	16	12	44	1.56	+0.90	0.50	0.0	7	13	5	12	W.	
Averages				48.2	+0.4						2.01	+0.38	0.9	0.9	7	13	9	8	SW-W	
MIDDLE.																				
Black Rock	Millard	4,572	5	49.0	+1.5	79	29	20	4	50	1.28	+0.20	0.75	4.0	6	13	11	6	S.	
Black Rock	Emery	5,500	0								0.85	+0.58	0.80	0.0	2				James Jeffs.	
Black Rock	Grand	4,385	13	52.7	-0.4	80	30	28	4	33	0.85	+0.58	0.80	0.0	2				H. T. Matthews.	
Black Rock	Millard	4,541	11	50.3	+2.7	80	29	16	4	54	1.36	+0.43	0.70	.....	5	16	2	12	S.
Black Rock	Emery	6,260	5	41.0	-1.2	93	29	20	4	30	0.39	+0.39	0.35	0.4	3	6	18	18	SW.	
Black Rock	Millard	5,100	18	51.2	+2.8	83	29	23	1	43	1.53	-0.30	0.61	0.0	7				J. J. Starley.	
Black Rock	Millard		2	50.6	.....	78	20	21	1	40	0.99	.....	0.70	.....	3	14	10	6	S.
Black Rock	Tooele	5,277	5	47.8	+1.5	72	29	9	1	35	1.87	+0.59	0.62	2.0	6	17	6	7	S.	
Black Rock	Mesa	4,608	14	53.0	-0.2	81	30	29	4	35	1.24	+0.58	0.65	0.8	8	9	12	9	se.	
Black Rock	Emery	4,686	8	55.6	+2.5	85	30	12	3	52	1.00	+0.67	1.00	0.0	1	19	7	4	.....
Black Rock	Tooele		2	45.6	.....	75	29	17	1	50	0.50	.....	0.40	0.0	2	13	10	7	.....
Black Rock	San Pete										0.94	.....	0.50	0.0	4				R. H. Spencer.
Black Rock	Juab	5,010	15	47.4	+1.1	72	29	22	1	38	1.03	-0.74	0.50	T.	8	15	9	6	SW.	
Black Rock	San Pete	5,575	11	45.4	-2.4	73	29	20	1	41	1.51	+0.82	0.40	.....	7	19	4	.....	William Brown.
Black Rock	Utah	4,950	4	50.9	.....	76	29	21	1	41	1.02	.....	0.62	2.0	8	13	14	3	n.
Black Rock	San Pete	5,859	13	47.4	+0.2	75	30	20	3	39	1.47	+0.63	0.52	0.0	5	9	11	10	.....
Black Rock	Juab										1.72	.....	0.74	0.0	8	16	9	5	.....
Black Rock	Millard			52.2	.....	79	27	32	14	41	1.30	.....	0.65	0.0	6	11	13	6	SW.
Black Rock	Utah	4,637	13	51.4	+2.2	80	29	24	4	47	2.07	+0.98	0.97	4.5	7	7	22	1	SW.	
Black Rock	Sevier	5,323	15								1.58	.....	1.00	0.0	5	12	14	4	nw.
Black Rock	Millard	5,200	10	50.6	+4.2	86	29	17	4	57	2.00	+0.93	0.75	T.	9	10	7	13	SW.	
Black Rock	Utah	7,474	13	59.2	-1.7	65	30	14	4	44	0.8	+0.20	0.26	.....	6	12	0	18	SW.
Black Rock	Utah	5,175	13	47.4	-0.1	79	7	16	1	53	2.00	+0.91	0.60	0.0	5	14	15	1	.....
Black Rock	Juab			49.0	.....	79	27	17	1	44	0.25	.....	0.11	0.0	4	9	10	11	.....
Black Rock	Carbon	5,546	6								1.21	+0.44	.....	.....	5	12	10	8	SW.
SOUTHERN.																				
Albany	San Juan	4,800	5	53.0	-1.6	81	30	28	5	41	1.40	+1.20	0.50	.....	8	14	8	8	W.
Albany	Beaver	4,456	5	45.6	.....	74	29	14	1	43	1.13	.....	0.28	0.0	9				H. R. Antes.
Albany	Garfield		4	38.5	.....	61	7	14	4	43	0.88	.....	0.32	.....	7	13	4	13	A. B. Anderson.
Albany	Garfield	5,700	5								0.88	.....	0.32	.....	7	13	4	13	H. J. McCullough.
Albany	Washington		1	59.1	.....	85	29	33	2	42	.....	.....	0.44	0.0	3	11	7	12	W. G. Bleak.
Albany	Beaver	7,318	11	49.0	+2.5	76	29	22	1	39	0.58	-0.16	0.44	0.0	3	11	7	12	Joseph T. Atkin.	
Albany	Wayne	4,000	10	53.8	+2.5	83	30	24	4	47	0.78	+0.32	0.69	.....	3	16	11	3	S. N. Slaughter.
Albany	San Juan			49.5	.....	88	19	25	4	57	2.87	.....	1.30	4.0	10	16	5	9	J. C. White.
Albany	Garfield	3,000	6	59.5	+0.5	86	29	35	11	43	0.98	.....	0.71	0.0	5	13	12	5	Joseph D. Lyman.
Albany	San Juan	4,925	5	45.8	.....	72	27	19	3	47	1.40	.....	1.00	0.0	2	19	0	8	F. W. Gibbons.
Albany	Wayne	7,000	5	41.4	.....	70	30	22	4	33	1.83	.....	1.00	T.	8	11	13	5	E. M. Ford.
Albany	Piute	7,000	13	43.2	+2.9	73	30	14	4	47	0.30	-0.22	0.20	3.0	2	18	0	12	Mrs. G. W. Carpenter.	
Albany	Beaver	6,180	6	46.2	.....	73	29	17	4	49	1.23	+0.73	0.53	3.6	12	9	5	16	Michael Hansen.
Albany	Grand	5,070	8	54.5	+5.8	82	29	30	1	28	0.85	-0.35	0.50	.....	5	15	11	4	G. T. Henry.
Albany	Iron	4,306	16	55.8	+0.4	86	30	29	4	45	0.66	+0.24	0.50	0.0	4	18	12	10	R. W. Dotson.	
Albany	Iron	5,479	5	47.2	+2.2	73	29	22	1	43	1.05	+0.56	0.84	6.5	6	15	12	3	Henry Crouse.	
Albany	Washington	5,979	14	47.6	+0.6	70	29	22	1	43	0.66	-0.57	0.20	4.0	7	11	12	7	Weather Bureau.	
Albany	Sevier	5,907	3	43.6	-0															

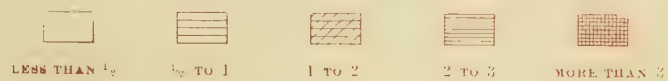
MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, APRIL, 1965.

At this station thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES



DAILY PRECIPITATION FOR UTAH, APRIL, 1905.

Sections and stations.	Day of month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine									T.	1.60		.22	.38			.41			1.37				T.		T.	T.	T.						3.98
Alta									.90				.10			1.20			.35	.26						T.		.30			T.		3.19
Blacksmith's Fork									.50	.05				.50		.48		.17	.17	.02								.03					2.22
Castle Rock									.07	.45				.34		.46			.45	.10							.05		.15	.06		.03	2.16
Corrairie													.27			.40			.55													.40	1.62
Evanston, Wyo.									.08	.44				.26		.42		T.	.06	.08		T.	.13		.22		.02				T.		1.71
Farmington									T.	.31			.05			.35		T.	.45	.50								.42			T.		2.08
Ft. Duchesne	.02								.02	.55		.02	.02						.06							T.							0.69
Heber										1.05						.28				.25	.10		.10						.20				2.06
Honolulu									.08	.60			.35			.56			.26	.05		T.	.02	.01				.17	.05		.05		2.45
Huntsville									.38	.07			.22			.53			.82									.20			.29		2.51
Kelton																																	
Logan									.09	.18			.30			.21			.26	.16												.40	1.60
Marion								T.	.02	1.25		.02	.14			.27		T.	.25	.75		.10	.02					.10	.13				3.05
Monticello										.50				.60		.20			.30	.05	.05					.15	.25						2.10
Millville								T.	.15	.11			.25			.27			.43	.16		T.	T.					.15				.61	2.13
Morgan										.15				.18		.36			.30	.08	.02							.16	.06			.07	1.38
Oakley, Idaho								T.								.45			.31			T.	.15	T.	T.						T.		0.91
Ogden No. 1									.25				.09			.37			.70	.69						.26	T.			.08			2.45
Ogden No. 2										.25			.20			.21			.59	.66							.02				.21		2.14
Park City									.15	T.			.08	.08		.30		.01	.22	.18			.02		T.	T.	.04				.25		1.33
Pocatello, Idaho																																	
Promontory																																	
Randolph									.26	.25			.23	T.	.42		T.	.47	.23	.04											.12	.20	2.22
Saltair Beach								T.	.22	.22			.09		.21			.29	.35					T.				.19			T.		1.38
Salt Lake City									.07	.38		T.	.12	.04	T.	.36		T.	.39	.16								.14	.03		.01		1.70
Snowville										.44						.26			.90	.32								.12					2.04
Strawberry Valley											.03		.09			.24			.24	.12	.02												1.88
Tropic										1.12		T.	.03		.22			.49	T.												.02		1.88
Vernal										1.00			T.					.14	.01		T.		.03										1.22
Weston, Idaho									.32	.21				.25		.32			.40	.06				.06		.04	.12				.42		2.20
Woodruff									.23	.39	.05					.50			.25			.10	T.								.13		1.56
MIDDLE.																																	
Black Rock								T.	T.	.75	.17	.03						T.	.11					.09							.13		1.28
Castle Dale																																	0.85
Cisco									T.			.80				T.	.05																1.22
Clear Creek						T.	T.	T.	.20	.30				.10		.10		.10	.20					.02	.10								1.36
Deseret										.70	.25	.07				T.		.28															0.39
Emery										.03	.01											.35	T.	T.	T.								1.53
Fillmore										.61	.30	.10		.11				T.	.30	T.	T.	T.	.10	T.	T.								0.99
Garrison									T.	T.	.70	.23	T.		.10			T.	.55	T.						T.	T.						1.87
Government Creek										.62	T.	.12		.10														.15					1.24
Grand Junction, Colo.	.01	.36							T.	.23	.53	.01							.04	T.				.03				.03					1.00
Green River									T.	.23	.53	.01	1.00																T.	T.	T.		0.50
Hatch										.40								.10															0.94
Indianola																.06			.01	.37				.50									1.03
Levan									.02	.50	.07	.03				.14		T.						.04				.02					0.55
Lucan																			.35	.08											.10		1.54
Manti										.37	.07		T.			T.			.30	.32	.04				.40	T.	.04						1.02
Mount Nebo								T.	.03	.62	.01	.01	.07		.14			.05	.09														1.47
Mount Pleasant										.52		.18							.40						.20								1.72
Nephi										.74	.05	.02		.03		.11			.11	.64			.02										1.30
Oak City										.65	.08	.02		.12		.02			.41														1.58
Payson									T.	1.00		T.		.10		.20		T.	.18	.10		T.		T.	T.								2.07
Provo									.01	.97			.08		.13				.39	.47				T.	T.		.02						
Richfield																																	
Salina										.17	.13							.02		.20			.02	.20									0.54
Scipio										T.		.75	.50	.06		.04			T.	.30	.20		T.	.02	.06	.04		.05			T.	T.	2.00
Soldier Summit										.26		.05							.15	.05	.05						.25						0.81
Sunny-side	T.	T.						T.	T.	.17	.07	.08	.06			.20			.10	.01		.01	.30	.01									1.01
Thistle										.50	.60					.20			.50	.20													2.00
Trout Creek										.11	.05	.07							.02														0.25
Utah Lake Pumping Station																																	
Wellington																																	
SOUTHERN.																																	
Aneth	.15	.12								.14	.36	.38	.15										T.	.15	.05		.08	.28	.05				1.40
Beaver																																	

551.05
7N2

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

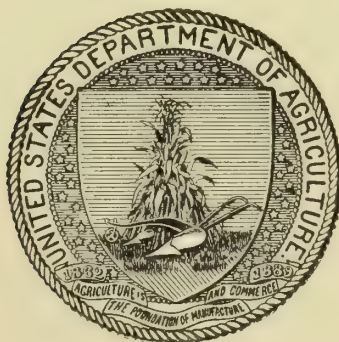
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

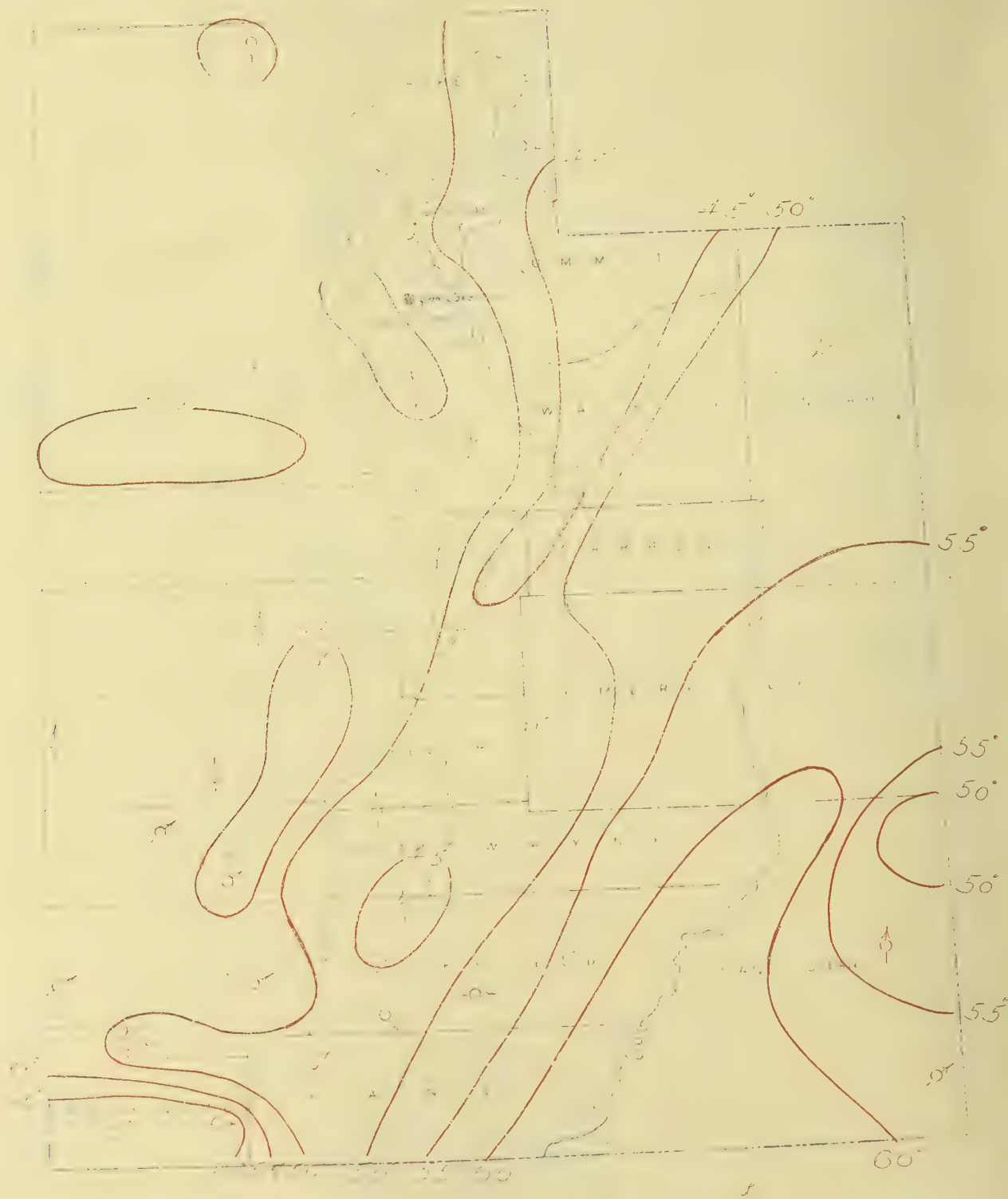
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JUNE 28, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,
CLIMATE AND CROP SERVICE
 OF THE
WEATHER BUREAU.
CENTRAL OFFICE: WASHINGTON, D. C.
 UTAH SECTION.
R. J. HYATT, Section Director.
 SALT LAKE CITY, UTAH.

OL. VII. May, 1905. No. 7.

WEATHER.

The prevailing weather over the State for the month of May was quite abnormal, the temperature averaging nearly 5° daily below the normal, and the mean precipitation for the State being one-quarter of an inch above the normal. The mean temperature was the lowest, with one exception—May, 1896—for the fourteen years that State data have been compiled; and the precipitation was above all previous records, with one exception—May, 1898. The distribution of the temperature deficiency and the precipitation excess was remarkably equable over the State, there being but one station recording an excess of temperature, and only a few scattered stations on the leeward sides of mountain ranges that recorded a deficiency of precipitation. The cold weather, which occurred during the closing days of the first decade, caused frost and ice over the more elevated districts of the entire State; and the precipitation, which was particularly heavy at this time, was mostly in the form of snow, especially in the mountain districts, where from 2 to 15 inches fell. The State extremes of temperature were moderate, the minimum being 3° above the average State minimum; and the maximum being 3° lower than the average State maximum for fourteen years.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 64 stations, was 52.3°, or 4.8° below the normal. The highest local monthly mean was 64.2° at Rockville; the lowest was 44.2° at Coyoto. The highest temperature recorded was 96° at Utah Lake Pumping Station, at the north end of Utah Lake, on the 18th, and at Rockville on the 31st; the lowest was 18° at Coyoto on the 11th, and Grayson on the 10th, giving an absolute range for the section of 78°. The greatest daily range for any station was 53° at Wellington on the 11th. The highest temperatures generally occurred on the 31st, with a few stations reporting the highest on the 16th; and the lowest temperatures occurred on the 9th to 12th, inclusive.

PRECIPITATION.

The average precipitation, determined from the reports of 74 stations, was 1.77 inches, or 0.74 inch above the normal. The excess was nearly constant over the entire State. The greatest monthly amount was 4.25 inches at Ogden No. 2, which is located on the bench in North Ogden; the least, 0.10 inch at Loa. The greatest precipitation in any 24 consecutive hours was 2.30 inches

at Meadowville on the 17-18th. Considerable moist snow fell over the section during the month, presenting the anomalous distribution of an increase from north to south.

WIND AND WEATHER.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 4,961; at Modena, 9,570; at Grand Junction, Colo., 4,268; and at Pocatello, Idaho, 6,420. The maximum velocity at Salt Lake City was 47 miles per hour from the west on the 17th; at Modena, 55 miles from the southwest on the 1st; at Grand Junction, Colo., 32 miles from the southwest on the 8th; and at Pocatello, Idaho, 45 miles from the southwest on the 9th.

The average number of clear days for the section during the month was 12; partly cloudy days, 10; cloudy days, 9. Determined from the records of automatic sunshine recorders, Salt Lake City had 52 per cent; Modena 84 per cent; Grand Junction, Colo., 62 per cent; and Pocatello, Idaho, 57 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 49 per cent, the lowest observed reading being 15 per cent on the 18th; at Modena, 52 per cent, the lowest observed reading being 10 per cent on the 20th; at Grand Junction, Colo., 54 per cent, the lowest observed reading being 21 per cent on the 23rd; and at Pocatello, Idaho, 56 per cent, the lowest observed reading being 11 per cent on the 31st.

There was an average of 8 days with .01 inch or more of precipitation; 9 over the northern, 7 over the middle, and 6 over the southern portion.

FARMING OPERATIONS AND CROP CONDITIONS.

The inclement weather of the first half of the month stopped farm work generally, and delayed crop cultivation until a time when this work was sorely needed. The latter portion of the month was much warmer and more settled, and farm work was vigorously pushed and was generally brought up to date. Alfalfa made a luxuriant growth during the last two weeks of the month, and in the southern portion of Utah this crop was being housed. The yields were reported fair to good. Grain was in fine condition, and winter and fall grain was generally coming in head. The fine farming weather after the storms of the first half of May permitted the planting of a great acreage of corn, potatoes and beets. These crops had all sprouted well, and in scattered localities were coming up. Beets, in fact, were nearly all up, over the State. The outlook for fruit was quite good, with the exception of peaches. The last-named fruit cannot fully recover from the freeze of early spring. Vine and bush fruit were, as usual, abundant, and nearing the ripening stage. The scattered frosts of the month were not specially deleterious, the fruit being too far advanced, and other crops being backward. The summer range was fine and fresh, being rushed forward by the warm sunshine following the rainy period, and stock thereon was in fine condition. The snow-fed streams were generally well filled, and many were rising, promising abundant water for future needs.

OBSERVERS' REMARKS.

Aneth.—Temperatures have been below normal this month.—H. R. Antes.

Black Rock.—The month has been cool and wet, the nights especially having been too cold for rapid growth; other than above, plant growth has been good.—Willard Burbank.

Blacksmith's Fork.—Fine growing weather prevailed during the latter part of the month; grass good on range, and stock doing well.—A. M. Israelson.

Castle Rock.—Cold during month, with very light rainfall; supply of irrigation water very low because of the light snowfall during the winter.—David Moore.

Deseret.—Cloudiness, with considerable high wind, prevailed during the month; precipitation above average; fruit safe.—S. W. Western.

Emery.—A very good growing month.—H. C. Wickman.

Government Creek.—A cold, wet and disagreeable month; all crops very late; fruit nearly all frost-killed.—Walter James.

Green River.—Cherries ripe, and strawberries have been ripe for some time.—J. T. Farrer, Jr.

Heber.—A remarkable month for changeable weather.—John Crook.

Henefer.—A good growing month; crops in fine condition; range excellent.—Wm. Brewer.

Huntsville.—An unusually stormy, cold and frosty month, but no killing frost; crops a little backward, but are in good growing condition; rivers getting low.—Lars Petersen.

Kanab.—Stormy during fore part of month; latter part fine.—E. M. Ford.

Levan.—Notwithstanding the month has been stormy and cold, grain and alfalfa seem to be farther advanced than usual at the end of May.—Wm. Brown.

Marion.—Very stormy from the 1st to the 13th.—James Woolstenhulme.

Marysvale.—Fruit trees very backward; crops making slow growth; range stock looking well; irrigation water very plentiful, and still increasing.—John W. Henry.

Meadowville.—More precipitation occurred during this month than during any previous May; the storm of the 17th damaged lucerne and grain considerably, but all crops are looking well and growing rapidly.—J. S. Moffat.

Mt. Nebo.—Sunshine decidedly below normal during May; the fore part was cold and stormy, with light frost.—D. C. Walkey.

Nephi.—A very cool and stormy month; crops looking well; range pasture good; some peaches killed by frost, but other fruit doing well; strawberries beginning to ripen.—A. Madsen.

Pinto.—Crops are growing nicely; good prospect for apples and plums; range good.—J. H. Harrison.

St. George.—Unusually late deposits of snow on the surrounding mountains.—James G. Bleak.

Scipio.—A showery month; everything growing splendidly; prospects very good.—Thos. Memmott.

Snowville.—The frosts on the 10th and 23rd did very little damage.—Jos. Robbins.

Tropic.—Month very favorable for plant growth; fruit promises a large yield; range in fine condition.—E. P. Bolton.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence).

Fog, light.—Marysvale, 4.

Corona, lunar.—Henefer, 6.

Frost, heavy.—Modena, 3, 7.

Parhelion.—Henefer, 1; Snowville, 6.

Fog, dense.—Government Creek, 1; Marysvale, 5; Sunnyside, 9.

Frost, light.—Mt. Nebo, 6, 13; Salt Lake City, 22; Vernal, 3, 11.

Halos, solar.—Henefer, 26, 31; Levan, 30; Mt. Nebo, 30;

Pinto, 13, 30, 31.

Frost, killing.—Aneth, 11; Black Rock, 10; Deseret, 23; Ft. Duchesne, 3; Green River, 5; Henefer, 5, 6, 22, 24; Levan, 10; Marysvale, 10, 11; Modena, 6, 11; Mt. Nebo, 4; Snowville, 12, 23; Trout Creek, 10, 11.

Sleet.—Castle Rock, 2, 11, 12; Grayson, 2; Deseret, 9; Government Creek, 2, 9, 10; Heber, 9; Henefer, 4, 11, 12; Levan, 2, 3, 8; Marysvale, 4, 5, 9; Meadowville, 12; Mt. Nebo, 3, 10, 11; Ogden, 10; Payson, 9, 10; Salt Lake City, 2; Sunnyside, 5; Tropic, 4, 5; Utah Lake Pumping Station, 9; Vernal, 10.

High winds.—Alta, 7; Aneth, 8, 26, 27; Black Rock, 1, 8; Deseret, 1, 2, 5, 7, 8, 21, 22, 25-29, 31; Ft. Duchesne, 3, 4, 27; Frisco, 1, 2, 8, 9, 10, 17, 20, 26, 27; Garrison, 1, 2, 8; Grayson, 8; Government Creek, 8, 10, 11, 12, 25; Heber, 2, 22; Henefer, 7, 8, 20; Huntsville, 17, 19; La Sal, 8; Levan, 1, 8, 27; Marion, 8; Mt. Nebo, 1, 2, 8, 21, 28; Ogden, 2, 4; Parowan, 1, 2; Payson, 1; Pinto, 1; Provo, 1, 8, 17; Salt Lake City, 17, 21; St. George, 1, 2; Scipio, 1, 8; Tropic, 8, 9; Utah Lake Pumping Station, 9, 17, 18, 22; Vernal, 8, 17, 28.

Hail.—Aneth, 10; Black Rock, 2, 4, 9; Blacksmith's Fork, 17; Castle Rock, 12, 28; Ft. Duchesne, 2; Grayson, 1-3; Garrison, 5; Government Creek, 2, 5, 8-10, 27; Heber, 8; Henefer, 2, 3, 11, 26; Huntsville, 17; Indianola, 2; La Sal, 2, 4, 9, 10, 28; Levan, 2, 3, 5, 8, 29; Marion, 4, 10; Marysvale, 2-4, 9, 12; Meadowville, 8, 9, 12, 17; Minersville, 4; Modena, 4, 8, 9; Morgan, 11, 28; Nephi, 2, 5, 8-10; Payson, 9, 10; Provo, 11; Salt Lake City, 28; Scipio, 2, 4, 5; Snowville, 10, 11; Sunnyside, 1, 2, 28; Tropic, 2, 3, 12; Utah Lake Pumping Station, 28; Vernal, 2, 9.

Thunderstorms.—Aneth, 1, 2, 12, 27; Black Rock, 22, 28; Castle Rock, 17, 26, 28; Deseret, 2; Farmington, 2, 11, 17, 27, 28; Ft. Duchesne, 9, 17, 18, 20; Beaver, 5, 17, 29; Giles, 1, 2, 4, 5; Grayson, 1; Government Creek, 4, 5, 17; Heber, 17; Henefer, 2, 8, 17, 26, 29; Huntsville, 2, 8, 11-13, 17, 20, 22, 28, 29; La Sal, 1, 18; Levan, 17, 22, 29; Manti, 6; Marysvale, 1, 4, 5, 12, 17, 18, 21; Meadowville, 3, 12, 17, 25, 26, 28; Minersville, 4; Moab, 1-5, 9, 12, 17, 28; Modena, 4, 5, 9, 18, 19, 27; Morgan, 11, 12, 17, 28; Mt. Nebo, 2, 12, 18, 24, 27; Nephi, 2, 17, 22, 26, 27; Ogden, 8, 17, 20, 28; Parowan, 5, 12; Payson, 17; Pinto, 4, 19; Randolph, 2, 28-30; Salt Lake City, 2, 11, 12, 17, 28, 29; Scipio, 5; Snowville, 1; Tooele, 17; Utah Lake Pumping Station, 17, 25, 29.

CORRECTIONS TO MARCH REPORT.

Escalante: Total precipitation recorded .90, should be 1.20.

Marion: Total precipitation recorded 2.35, should be 2.33.

GREAT SALT LAKE.

The stage of the water on May 1 was 0.7 of a foot above the zero of the gage; on May 15 the reading showed a rise to 0.8; and the June 1 reading revealed a shrinkage to 0.7.

Comparative Temperature and Precipitation Data for May During the Past Fourteen Years.

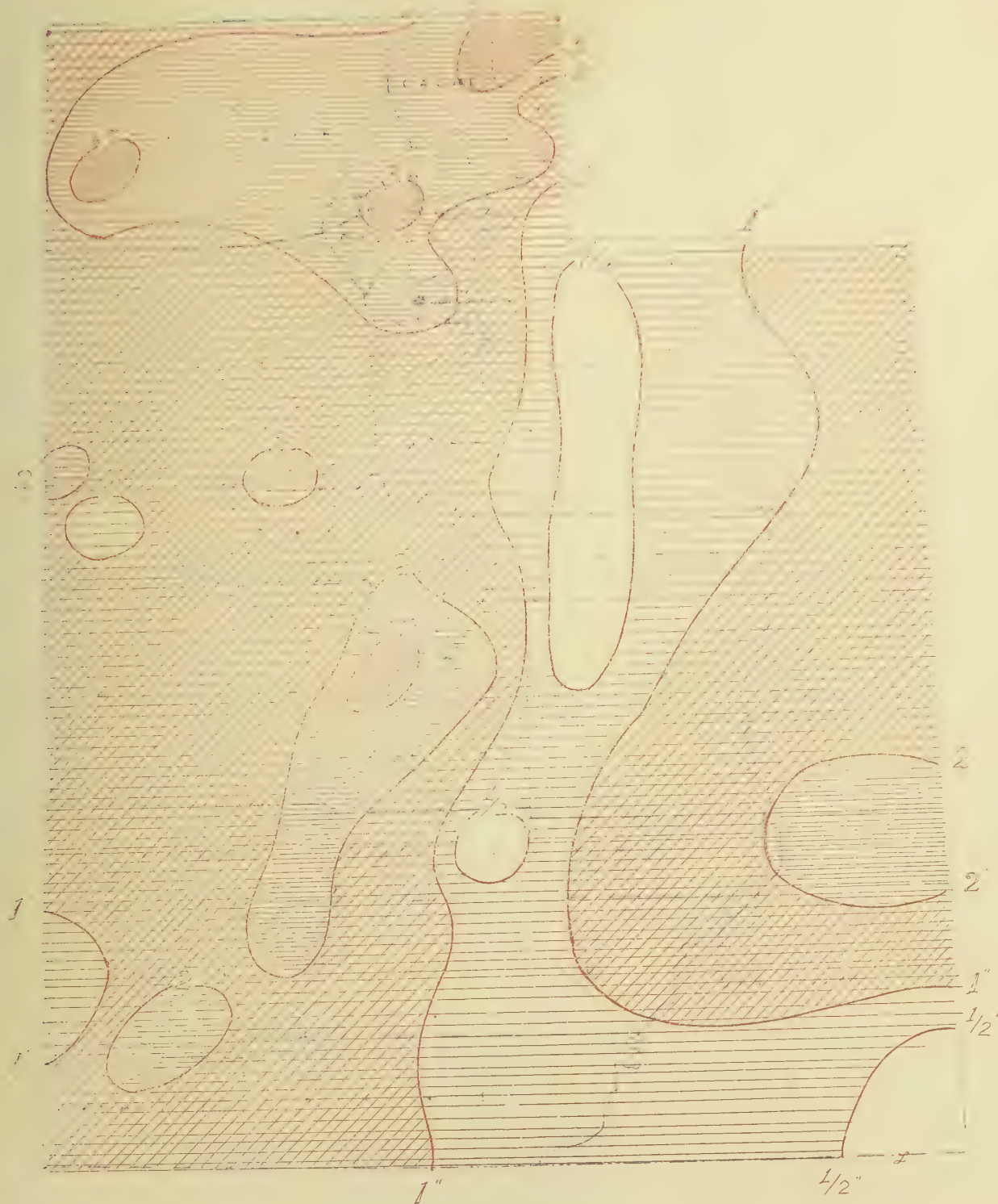
Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	54.8	98	20	1.55
1893	54.8	96	12	0.77
1894	58.2	98	10	0.44
1895	57.0	99	19	1.16
1896	51.0	104	12	1.52
1897	60.2	104	12	0.42
1898	53.2	94	20	3.02
1899	52.8	96	15	0.79
1900	59.5	101	21	0.36
1901	59.3	98	15	1.29
1902	56.2	99	13	0.64
1903	53.3	100	15	1.60
1904	56.2	100	15	1.71
1905	52.2	96	18	1.77

CLIMATOLOGICAL DATA FOR UTAH, MAY, 1905.

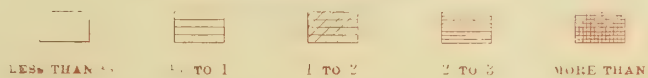
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Rock	Utah	4,900	9							1.75	-0.63	0.60	0.0	7						T. B. Whitby.
Box Elder	Utah	4,240	35	54.6	-6.6	88	31	33	9	42	0.51	+1.67	0.18	0.0	7	12	7	12	sw.	David Moore.
Uinta	Utah	4,959	9	44.4	-1.9	74	31	21	12	42	0.86	-0.77	0.25	1.0	11	18	9	10	sw.	W. E. Johnson.
Davis	Utah	4,207	5	53.8	-4.7	86	31	33	10	39	2.80	+0.02	0.54	0.0	11	18	9	4	W.	Frank Tucker.
Wasatch	Utah	5,000	17	53.2	-3.9	86	31	28	3	43	0.89	+0.28	0.40	2.8	10	15	5	11	nw.	Charles Boylin.
Summit	Utah	5,006	12	50.5	-2.3	82	31	29	22	48	1.27	-0.32	0.62	0.0	9	13	13	5	sw.	Ferdinand Rohricht.
Weber	Utah	5,301	6	49.4	-2.5	81	31	25	6	50	1.14	-0.42	0.40	0.0	10	13	10	8	s.	John Crook.
Box Elder	Utah	5,100	10								2.80	+0.80	0.97	1.0	8	10	16	5	nw.	William Brewer.
Cache	Utah	4,230	27	51.6	-8.9	85	31	30	*12	41	2.25	+1.68	1.00	0.0	3	14	9	7	W.	Lars Petersen.
Box Elder	Utah	4,507	14	54.4	-0.8	90	31	30	10	39	2.13	-0.08	0.52	0.0	11					Agent So. Pacific Co.
Rich	Utah	6,200	6	46.3	-2.0	75	31	23	4	36	3.05		0.85	0.0	13					W. M. Jardine.
Cache	Utah	4,818	10								2.11	+0.22	0.45	0.0	8	11	10	10	W.	W. M. Maughames.
Morgan	Utah	5,080	2	49.4		81	31	27	*12	43	1.69		0.53	0.0	11	17	9	5	var.	J. S. Moffat.
Cassia	Idaho	4,191	12	50.4	-3.7	82	31	30	*3	39	1.46	+0.60	0.50		6	15	12	4	n.	Fred Yeates.
Weber	Idaho	4,310	4	55.4	-1.7	85	31	33	10	31	4.25	+1.28	1.38	0.0	11	18	10	3	n.	T. R. G. Welch.
Weber	Idaho	4,310	35	52.4	-9.4	77	31	37	*3	36	2.90	+1.29	0.82	0.0	10	12	5	14	se.	Thomas Adams.
Bannock	Idaho	4,483	5	50.7	-3.6	80	31	31	10	36	1.13	-0.04	0.19	0.4	14	8	16	7	sw.	Enoch Farr.
Box Elder	Idaho	4,913	35								1.07		0.53	0.0	12	12	13	6	sw.	W. H. Chovers.
Rich	Idaho					82	31	34	10	31	2.29		0.50	0.0	10					Weather Bureau.
Salt Lake	Idaho	4,366	31	54.4	-3.4	83	31	34	10	32	2.74	+1.02	1.42	T.	12	7	14	10	sw.	Agent So. Pacific Co.
Salt Lake	Idaho	4,366	15	48.6	-7.1	81	31	25	10	46	2.30	+1.07	0.50		10	11	6	14	n.	Wm. Rex.
Tooele	Idaho	4,900	9	52.9	-3.2	83	31	30	10	35	1.42	-0.85	0.47	0.0	9	14	7	10	s.	Francis W. Bailey.
Utah	Idaho		10	52.9		80	31	31	*5	37	1.38		0.48	3.5	8	12	10	9	n.	Section Center.
Onida	Idaho	4,460	7	51.0	-2.3	83	31	28	10		1.75	-0.34	0.55		4	6	19	4	ne.	Joseph Robbins.
Rich	Idaho	6,500	8	46.8	-5.5	79	18	22	*7	50	2.35		2.00	0.0	4	6	19	4	W.	I. J. Elkington.
Rich	Idaho			51.9	-5.3						2.22	+0.76		0.4	9	12	10	9	sw.	Joab Collier.
MIDDLE.																				
Millard	Idaho	4,872	5	53.2	-3.2	86	31	30	10	45	1.52	+0.61	0.70	3.0	8	12	4	5	s.	William Chatterton.
Emery	Idaho	5,500	6	48.8	-5.7	81	31	19	15	47	0.40	+0.22	0.30	4.0	2	18	10	2		Thomas Ashton.
Grand	Idaho	4,385	13	59.6	-2.9	83	*21	35	*4	30	1.60	+1.10	0.50	0.0	5					Willard Burbank.
Millard	Idaho	4,541	11	53.6	-3.9	86	30	27	23	51	1.35	+0.38	0.31	0.0	10	10	5	16	s.	James Jeffs.
Emery	Idaho	6,260	5	45.3	-6.0	67	19	22	3	30	7.07	+0.48	0.70	7.0	1	6	6	19	sw.	H. T. Matthews.
Millard	Idaho	5,100	15	55.3	-2.5	91	31	28	10	45	2.45	+1.21	1.20	0.0	9					S. W. Western.
Tooele	Idaho	5,277	5	50.0	-5.4	81	*16	26	10	51	1.83		1.23	T.	5	10	9	10	s.	H. C. Wickman.
Mesa	Idaho	4,608	14	57.6	-4.0	85	31	32	3	39	2.17	+0.37	0.90	4.0	11	10	16	5	s.	J. J. Starley.
Emery	Idaho	4,080	8	55.3	-9.6	80	30	32	5	31	1.98	+1.35	1.02	2.4	11	11	12	8	nw.	E. M. Smith.
Tooele	Idaho	4,080	2	47.8		82	*16	22	*10	48	2.20	+1.24	1.15	2.0	2	19	7	5		Walter James.
San Pete	Idaho										1.11		0.62	0.0	6					Weather Bureau.
Juab	Idaho	5,010	15	50.5	-5.1	80	31	27	*4	36	2.60	+1.24	0.74	1.5	12	13	13	5	sw.	J. T. Farrer, Jr.
San Pete	Idaho	5,575	11	49.9	-9.3	78	26	29	*6	35	2.25	+1.54	0.53		8	0	24	1		Owen Sheridan.
Utah	Idaho	4,650	4	53.9	-2.4	87	31	32	*4	40	1.18	+0.14	0.41	0.0	16	6	19	6	n.	R. H. Spencer.
San Pete	Idaho	5,859	13	44.7	-10.7	80	17	27	9	43	1.25	+0.07	0.40	0.0	6	8	19	0		William Brown.
Juab	Idaho										1.71		0.42		12	13	13	5		W. C. Harmon.
Millard	Idaho			55.2		85	31	28	10	47	1.91		0.87	1.0	7	13	10	8	sw.	D. C. Walkey.
Utah	Idaho	4,637	13								1.98		0.75	0.0	6	10	19	2	sw.	Web Greene.
Sevier	Idaho	4,532	13	54.4	-3.6	89	31	32	10	47	1.85	+0.01	1.04	0.0	10	5	24	2	nw.	H. D. Allred.
Millard	Idaho	5,323	15																	W. C. Wightman, Jr.
Utah	Idaho	5,260	10	51.9	-1.9	86	31	25	4	50	3.08	+1.92	1.43	4.0	14	7	8	16	sw.	Caleb Tanner.
Utah	Idaho	7,474	13	44.4	-3.0	78	31	21	10	47	0.49	-0.26	0.12	0.0	7	9	0	22	sw.	J. M. Lauritzen.
Utah	Idaho	5,075	13	51.8	-3.0	88	31	30	9	48	0.70	-0.25	0.30	0.0	3	19	8	4	sw.	Thomas Memmott.
Juab	Idaho					80	31	21	10	43	0.60		0.20	0.0	8	12	9	10	sw.	Agent Rio Grande R. R.
Carbon	Idaho			58.6		96	18	30	10	50	0.85		0.27	0.0	5	5	8	18	n. & s.	J. H. Mitchell.
Carbon	Idaho	5,540	6	55.1	-1.3	84	31	25	11	53					5					E. E. Edwards.
Carbon	Idaho			52.0	-4.6						1.61	+0.70		1.3	7	11	11	9	sw.	W. A. Knight.
SOUTHERN.																				
San Juan	Utah	4,800	5	59.2	-2.4	90	31	31	11	42	0.39		0.20	0.0	5	20	9	2	sw.	E. E. Branch.
Beaver	Utah		4	48.6		78	25	24	13	49	2.49		0.58	0.0	7					H. R. Antes.
Garfield	Utah			44.2	-5.6	78	16	18	11	49	1.82		0.75		6	16	6	9	sw.	A. B. Anderson.
Garfield	Utah	5,700	5	52.8	-2.4	91	17	27	12	38	0.87	+0.54	0.33	0.0	5	10	10	11	W.	H. J. McCullough.
Washington	Utah		1	62.6		84	*16	37	10	42					15	0	16			W. G. Bleak.
Beaver	Utah	7,318	11	52.6	-3.9	85	16	22	10	41	1.44		0.47	6.0	9	8	11	10	sw.	Joseph T. Atkin.
Wayne	Utah	4,000	10	57.6	-4.9	88	1	30	11	46	1.30		0.36	3.0	6	14	14	3	sw.	S. N. Slaughter.
San Juan	Utah			53.0		83	17	18	10	42	1.40		0.75	0.0	6	14	14	3	s.	J. C. White.
Garfield	Utah	3,000	6	64.0	-6.6	93	31	35	11	42	1.58		0.35	0.0	4	18	9	4		Joseph D. Lyman.
Kane	Utah	4,925	5	46.6		85	31	19	11	49	1.20		0.50	6.0	5	6	0	10		E. W. Gibbons.
San Juan	Utah	7,000	5	49.2	-4.0	76	31	23	11	33	2.17	+0.01	0.62	8.0	8	11	14	6		E. M. Ford.
Wayne	Utah	7,000	13	47.8	-2.1	80	31	20	11	40	0.10	-0.25	0.10	1.0	1	19	0	12		Mrs. G. W. Carpenter.
Plute	Utah	6,180	6	49.0	-3.2	83	16	22	11	50	1.85		0.30	0.53	2.4	1	19	0	12	Michael Hansen.
Beaver	Utah	5,070	8	58.2	-3.0	86	31	34	10	25	1.47	+0.68	0.53	2.0	8	13	13	5	s.	G. T. Henry.
Grand	Utah	4,000	16	60.0	-5.2	93	31	34	*3	48	2.28	+1.69	1.04	T.	7	14	9	8	sw.	R. W. Dotson.
Iron	Utah	5,479	5	50.6	-3.4	80	16	28	11	40	0.73	-0.02	0.26	1.1	9	13	14	4	sw.	Henry Crouse.
Iron	Utah	5,970	14	50.8	-5.2	83</														

At all stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

55
820

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

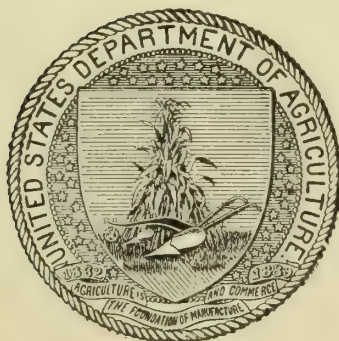
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

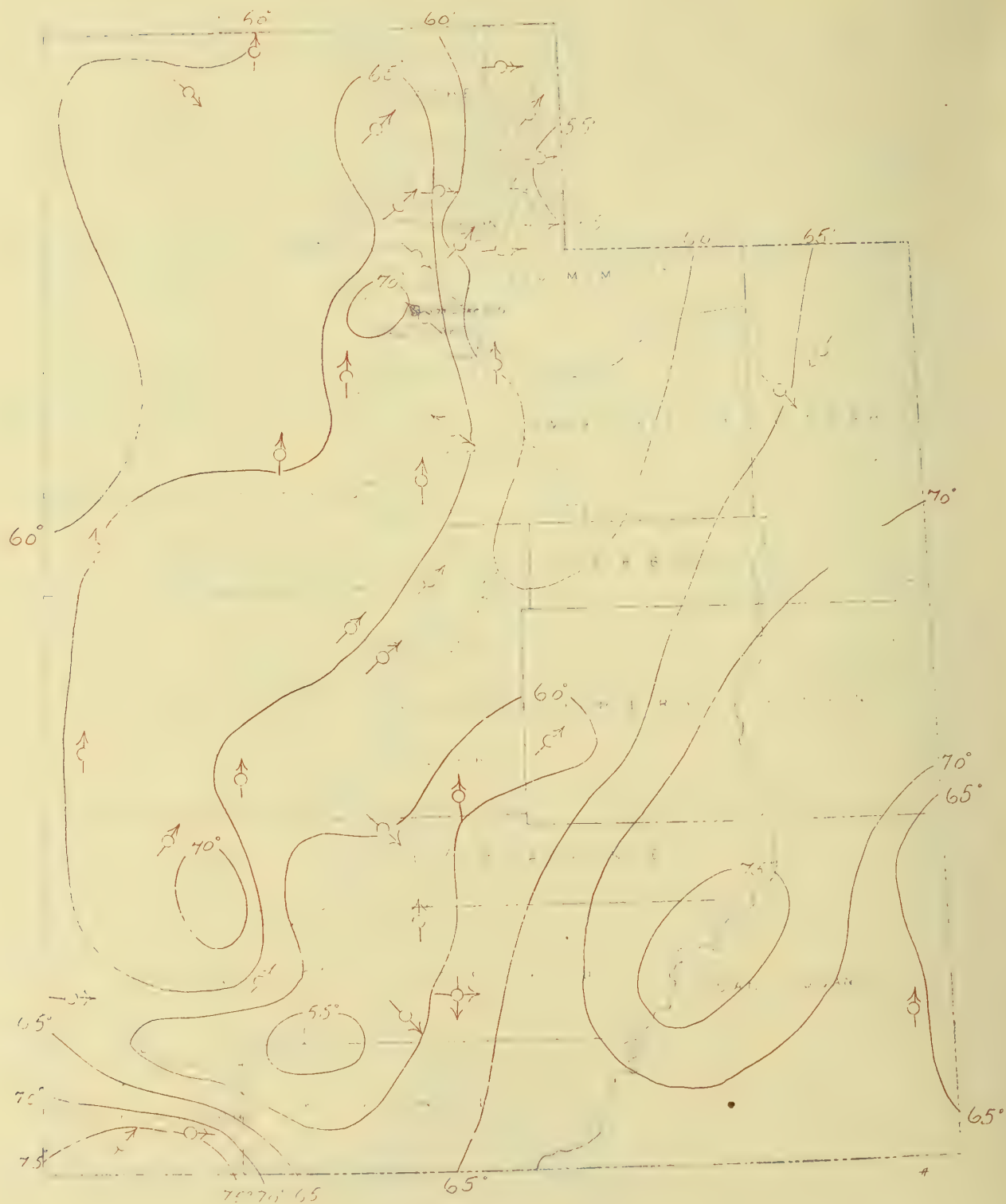
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JULY 27, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,
CLIMATE AND CROP SERVICE
 OF THE
WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.
 R. J. HYATT, Section Director.
 SALT LAKE CITY, UTAH.

Vol. VII. June, 1905. No. 8.

WEATHER.

The weather during the month presented the usual summer characteristics. There was an abundance of bright sunshine, the majority of days, especially during the latter part of the month, being entirely devoid of cloudiness. Owing principally to the effect produced by the uninterrupted insolation, the days became quite warm, though the mean temperature during the month did not vary much from the normal on account of the cool nights. High winds were frequent, but there were comparatively few thunderstorms. The precipitation in the northern portion was slightly below the normal, but decreased rapidly southward, and in the southern portion no rainfall occurred over wide areas.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 64 stations, was 64.7°, or 0.3° below the normal. The highest local monthly mean was 78.0° at Hite; the lowest was 52.2° at Soldier Summit. The highest temperature recorded was 90° at Grayson on the 22nd; the lowest was 23° at Beaver on the 4th, giving an absolute range for the section of 87°. The greatest daily range for any station was 70° at Thistle on the 25th. The highest temperatures generally occurred from the 21st to the 27th; and the lowest from the 4th to the 6th.

PRECIPITATION.

The average precipitation, determined from the reports of 75 stations, was 0.18 inch, or 0.18 inch below the normal. There was a slight excess over the northern portion, a decided deficiency over the middle, while over the southern portion precipitation was almost entirely absent. The greatest monthly amount was 1.5 inches at Meadowville, while at 20 stations there was not even a trace of rainfall. The greatest amount in any 24 consecutive hours was 0.93 inch at Meadowville on the 17th. With the exception of 2.0 inches of moist snow, which fell at Alta, the precipitation was entirely in the form of rain.

WIND AND WEATHER.

The prevailing direction of the wind for the section was south-west. The total number of miles recorded at Salt Lake City was

4,969; at Modena, 10,397; at Grand Junction, Colo., 4,854; and at Pocatello, Idaho, 5,442. The maximum velocity at Salt Lake City was 44 miles per hour from the west on the 4th; at Modena, 48 miles from the southwest on the 23d; at Grand Junction, Colo., 31 miles from the southwest on the 8th; and at Pocatello, Idaho, 30 miles from the west on the 4th.

The average number of clear days for the section during the month was 21; partly cloudy days, 7; cloudy days, 2. Determined from the records of automatic sunshine recorders, Salt Lake City had 83 per cent; Modena 95 per cent; Grand Junction, Colo., 81 per cent; and Pocatello, Idaho, 80 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 32 per cent, the lowest observed reading being 10 per cent on the 25th; at Modena, 26 per cent, the lowest observed reading being 4 per cent on the 25th; at Grand Junction, Colo., 30 per cent, the lowest observed reading being 7 per cent on the 23rd; and at Pocatello, Idaho, 42 per cent, the lowest observed reading being 9 per cent on the 25th and 27th.

There was an average of 1 day with .01 inch or more of precipitation; 2 over the northern, 1 over the middle, and none over the southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence).

Sleet.—Alta, 8, 9.

Parhelion.—Snowville, 9.

Rainbow.—Meadowville, 10.

Killing frost.—Panguitch, 25-27.

Solar halos.—Government Creek, 15; Henefer, 3; Pinto, 1.

Light frost.—Emery, 5; Meadowville, 29; Pinto, 29; Randolph, 11, 24, 27, 30.

Hail.—Alta, 17; Henefer, 8, 9; Levan, 15; Mt. Nebo, 9; Salt Lake City, 8, 9; Snowville, 17.

Thunderstorms.—Castle Rock, 9; Farmington, 8, 17; Ft. Duchesne, 8, 13, 18; Giles, 7; Government Creek, 8; Heber, 7-9; Henefer, 8, 9; Huntsville, 4, 8, 17; La Sal, 8; Levan, 7, 9, 15; Marion, 10; Marysville, 8; Meadowville, 8, 9, 14, 17; Moab, 8; Morgan, 8; Mt. Nebo, 8, 9, 13; Nephi, 7-9, 15; Payson, 7, 9; Randolph, 21; Salt Lake City, 8, 9; Scipio, 8; Snowville, 14; Sunnyside, 7, 8; Utah Lake Pumping Station, 9; Vernal, 18.

High winds.—Black Rock, 22-27; Emery, 15-27; Ft. Duchesne, 14, 16, 17; Frisco, 2-4, 6-8, 12-14, 17, 21-27, 30; Garrison, 2, 4, 7, 8, 12, 17, 23-27, 30; Giles, 17, 24; Government Creek, 3, 7, 12, 13, 17, 23-27; Heber, 1, 4, 12; Henefer, 2, 4, 7, 8, 12, 15, 27, 28; La Sal, 24; Levan, 4, 17, 23; Marysville, 4, 17; Meadowville, 4; Modena, 23; Morgan, 4; Mt. Nebo, 2-4, 23, 27; Payson, 2-4, 12, 13, 23, 27-29; Pinto, 4; Provo, 4; St. George, 20, 21, 23; Salt Lake City, 4; Scipio, 18, 22, 23; Sunnyside, 17; Tropic, 5, 17, 20, 21; Vernal, 17, 23, 24; Aneth, 3, 7, 8, 15, 17, 24, 27; Deseret, 1-4, 7, 8, 12, 14, 15, 17, 23, 25, 26; Thistle, 4, 8, 17; Utah Lake Pumping Station, 4, 16, 23.

CROP CONDITIONS.

The warm, dry weather of the month exercised a beneficial or deleterious effect on growing crops; arid land crops suffered considerably from the drought, but where sufficient water was available for irrigation the warm, abundant sunshine matured the crops rapidly, and toward the close of the month fall and early-sown spring grain were ripening fast, and harvesting had begun. Despite the depredations of chinch bugs, which had made their appearance in different parts of the section, the yield from properly irrigated crops was up to the average, both in quality and quantity. On arid farms and some other sections, especially in the southern portion, where the supply of water had already fallen below the demand, a deterioration in the quality of the growing cereals had become evident. The first crop of lucerne was practically gathered in good condition, with yields generally up to the average. The harvesting of this staple was considerably delayed by the high winds that prevailed at times. The second crop of alfalfa was making good advancement, and was being harvested over the southern counties. Sugar beet thinning progressed during the month, and by the close was completed; the stand was very good, and the crop made rapid growth. Gardens, where well watered, were in satisfactory condition, although insects were present in large numbers in localities. New potatoes and other early garden truck were being marketed in large quantities. Fruit suffered in places from the high winds, which blew the young fruit from the trees; notwithstanding this unfavorable feature, apples and pears promised good yields. The range deteriorated to a marked degree toward the close of the month, due to the continued drought, and in some localities suffered complete ruin by forest fires. Stock, notwithstanding the poor condition of the range, was in good condition. The supply of irrigation water had begun to fail rapidly.

OBSERVERS' REMARKS.

Black Rock.—A windy month, and very dry.—Willard Burbank.

Castle Rock.—Very little rainfall; high west winds burned up grass, and other vegetation was wilted; creeks dry; the worst month for winds I have ever seen.—David Moore.

Emery.—Drying winds were very hard on everything; water is plentiful yet, but it is lowering fast; crops looking fair; alfalfa being cut, yield will be below average.—Hans C. Wickman.

Ft. Duchesne.—Weather was seasonably warm and dry.—J. J. Pempey.

Frisco.—A very dry and windy month; ranges suffering for the want of moisture; range stock was in good condition.—S. N. Slaughter.

Giles.—Insects in this locality are quite bad, particularly grasshoppers, chinch bugs, butterflies and army worms, hence no lucerne seed will be raised here this season; water quite low.—John C. White.

Government Creek.—The driest June on record here; dry farm crops dried up very badly.—Walter James.

Green River.—River falling very fast; cherries nearly all gone; worms have been very severe on all garden plants; grasshoppers very numerous.—J. T. Farrer, Jr.

Heber.—Very pleasant month but for the high winds; some frost every week, but very little damage.—John Crook.

Henefer.—Dry winds prevailed during the month; the range and all arid crops suffered; all crops did well that were irrigated.—William Brewer.

Huntsville.—A fine month for growth; cutting of first crop of lucerne commenced; water getting scarce.—Lars Petersen.

Kanab.—Not a cloudy day in the month, but a number of very windy days.—E. M. Ford.

Marysville.—Elevation, 6,180 feet; month very dry, with large per cent of sunshine; hot, dry weather was bad for growing crops; first crop of alfalfa being harvested.—John W. Henry.

Meadowville.—The month has been very dry, except for the storm of the 17th; all crops look well that were watered; first crop of lucerne being cut, and it is very short and light.—J. Moffat.

Moab.—Water in the Grand river is 13 feet below the low water mark.—Henry Crouse.

Mt. Nebo.—Month was dry and windy; but very little precipitation; irrigation water about all gone.—D. C. Walkey.

Scipio.—A dry, windy month.—Thos. Memmott.

Sunnyside.—High winds prevailed.—Henry Cullum.

Tooele.—Hot south winds blew on the 4th, 7th, 8th and 25th.—Isaac J. Elkington.

Tropic.—Dry weather, with high winds and light frosts, prevailed during the month; however, all crops made satisfactory growth.—E. P. Bolton.

Vernal.—Caterpillars of many kinds are abundant and doing much damage.—Joab Collier.

Aneth.—An unusual amount of high wind, and no precipitation.—H. R. Antes.

Deseret.—Remarkable month for wind; plenty of sunshine, not a trace of precipitation; crops made good growth; but weather for haying.—S. W. Western.

LATE REPORTS.**APRIL.**

Strawberry Valley: Total precipitation, 1.01 inches; greatest in any 24 consecutive hours, 0.24 inch on the 16th and 19th.

MAY.

Strawberry Valley: Total precipitation, 1.06 inches; greatest in any 24 consecutive hours, 0.24 inch on the 2nd.

GREAT SALT LAKE.

The stage of the water on June 1st and 15th was 0.7 foot, and on July 1st, 0.4 foot above the zero of the gage.

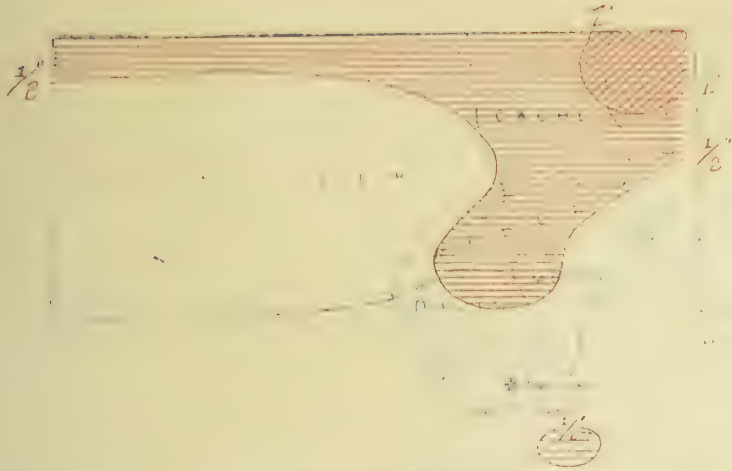
**Comparative Temperature and Precipitation Data for June
During the Past Fourteen Years.**

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	65.0	116	22	0.46
1893	64.0	105	19	0.02
1894	61.5	106	15	0.84
1895	62.8	106	18	0.43
1896	70.0	112	21	0.20
1897	63.2	104	20	0.25
1898	65.2	110	22	0.78
1899	64.0	110	21	0.58
1900	69.7	111	30	0.16
1901	63.3	109	19	0.25
1902	66.9	114	21	0.17
1903	65.7	110	27	0.47
1904	63.3	102	21	0.47
1905	64.7	110	23	0.18

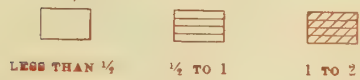
CLIMATOLOGICAL DATA FOR UTAH, JUNE, 1905.

Sections and stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Observers			
				Mean	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total (snowfall) (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.		Number cloudy days.	Prevailing direction of wind.	
NORTHERN.																					
Castle Rock	Summit	4,240	35	66.6	-4.6	96	30	10	5	8	0.24	0.13	0.0	1	21	1	1	1	W.	David Moore.	
Corinne	Box Elder	4,240	35	66.6	-4.6	96	30	10	5	8	0.10	0.10	0.0	1	21	1	1	1	SW.	W. E. Johnson.	
Evansville, Wyo.	Utah	6,980	9	81.0	0	79	20	6	15	0.0	-0.31	0.13	0.0	3	27	3	0	0	SW.	Frank Tucker.	
Fort Union	Davis	4,207	8	68.8	-0.6	93	12	6	30	0.0	+0.31	0.13	0.0	1	26	3	1	1	NW.	Charles Boylin.	
Idaho Falls	Utah	5,000	17	64.8	-0.4	92	23	18	30	0.10	0.14	0.0	3	18	15	2	2	NW.	Frederick Rohricht.		
Idaho Falls	Wasatch	5,000	17	60.2	+0.7	87	30	6	30	0.0	+0.02	0.35	0.0	2	23	3	2	2	S.	John Crook.	
Idaho Falls	Summit	5,304	6	58.3	-1.3	87	30	30	0	53	0.13	-0.13	0.03	0.0	1	24	3	1	W.	William Brewer.	
Idaho Falls	Weber	5,000	10	63.8	-0.2	91	12	30	18	15	+0.69	0.55	0.0	1	22	3	1	1	W.	Lars Petersen.	
Idaho Falls	Box Elder	4,730	27	63.8	-0.2	91	12	30	18	15	T.	-0.34	T.	0.0	0	22	3	1	NW.	Agent So. Pacific Co.	
Idaho Falls	Cache	4,807	14	65.2	+1.0	82	20	30	4	30	0.63	+0.03	0.30	0.0	1	22	3	1	W.	W. M. Jardine.	
Idaho Falls	Box Elder	4,807	14	63.8	-0.2	91	12	30	18	15	0.10	0.10	0.0	1	22	3	1	1	W.	W. M. Maughames.	
Idaho Falls	Rich	5,200	0	59.8	0	84	*12	32	*5	11	+1.15	+0.65	0.03	0.0	1	20	2	2	W.	J. S. Moffat.	
Idaho Falls	Cache	4,848	10	63.8	-0.2	91	12	30	18	15	+0.20	0.30	0.0	3	20	2	1	1	SW.	Fred Yates.	
Idaho Falls	Morgan	5,200	2	58.8	0	86	12	33	0	48	-0.51	0.30	0.0	3	20	2	1	1	SW.	T. R. G. Welch.	
Idaho Falls	Cassia	5,200	12	50.7	-3.0	87	30	38	28	46	-0.80	+0.26	0.30	0.0	4	18	2	1	1	W.	Thomas Adams.
Idaho Falls	Weber	4,310	4	67.9	0	80	7	44	5	39	-0.85	0.85	0.0	1	27	3	0	0	SW.	Enoch Farr.	
Idaho Falls	Weber	4,310	35	72.7	+0.8	80	12	52	17	0	-0.82	+0.28	0.82	0.0	1	22	6	2	W.	W. H. Chivers.	
Idaho Falls	Summit	7,800	5	85.0	-3.7	78	20	31	10	39	+0.27	0.30	0.0	1	20	0	0	0	SW.	P. S. McKimmins.	
Idaho Falls	Bannock	4,183	5	61.5	-0.5	85	30	30	18	46	+1.17	+0.08	0.51	0.0	7	19	9	2	SW.	Weather Bureau.	
Idaho Falls	Box Elder	4,913	35	63.6	-1.0	91	12	30	18	15	+0.08	0.51	0.0	7	19	9	2	2	SW.	Agent So. Pacific Co.	
Idaho Falls	Rich	5,200	0	59.8	0	84	*12	32	*5	11	+0.65	0.03	0.0	2	20	2	2	2	W.	Wm. Rex.	
Idaho Falls	Salt Lake	4,240	31	71.6	+0.6	91	12	30	18	15	-0.16	0.16	0.0	3	20	2	1	1	SW.	Francis W. Bailey.	
Idaho Falls	Salt Lake	4,240	31	71.6	+0.6	91	12	30	18	15	-0.16	0.16	0.0	3	20	2	1	1	SW.	Section Center.	
Idaho Falls	Box Elder	4,240	15	60.0	-1.7	89	20	32	*10	52	+0.11	0.40	0.0	3	13	10	1	1	S.	Joseph Robbins.	
Idaho Falls	Tooele	4,240	15	66.0	-0.9	88	12	37	5	31	T.	-0.64	T.	0.0	0	20	1	0	0	S.	I. J. Elkington.
Idaho Falls	Utah	4,240	10	68.0	+1.1	93	23	31	*10	41	+0.21	0.11	0.0	2	20	6	4	4	NE.	Joab Collier.	
Idaho Falls	Onondaga	4,400	2	60.6	-1.1	91	30	33	0	50	+0.04	0.17	0.0	5	19	1	0	0	SW.	William Chatterton.	
Idaho Falls	Rich	4,240	8	55.0	-0.7	80	*3	29	*10	47	+0.40	+0.11	0.40	0.0	1	25	4	1	W.	Thomas Ashton.	
Averages				63.6	-1.0						-0.43	-0.08	T.		2	22	6	2	W.		
MIDDLE.																					
Black Rock	Millard	4,872	5	64.5	+0.3	91	*23	37	5	47	T.	-0.33	T.	0.0	0	21	6	0	0	S.	Willard Burbank.
Castle Dale	Emery	5,508	0	61.2	-3.4	90	*1	31	*5	57	0.00	-0.39	0.00	0.0	0	27	3	0	0	SW.	James Jeffs.
Cisco	Grand	4,388	13	71.1	-0.9	97	21	46	6	46	0.00	-0.12	0.00	0.0	0	27	3	0	0	SW.	H. T. Matthews.
Deseret	Millard	4,544	11	65.2	-0.0	94	30	31	5	51	0.00	-0.34	0.00	0.0	0	23	5	2	2	S.	S. W. Western.
Emery	Emery	6,200	5	57.1	-1.7	70	*21	33	1	32	0.00	-0.56	0.00	0.0	0	10	10	10	10	SW.	H. C. Wickman.
Fillmore	Millard	5,100	15	69.6	+1.0	97	*21	39	6	51	T.	-0.52	T.	0.0	0	23	7	0	0	S.	J. J. Starley.
Garrison	Millard	5,100	2	65.4	-0.2	90	22	32	5	54	T.	-0.22	T.	0.0	0	23	7	0	0	S.	E. M. Smith.
Gov. M. T. Creek	Tooele	5,277	5	64.2	-0.2	89	23	34	5	44	T.	-0.22	T.	0.0	0	24	5	1	1	S.	Walter James.
Grand Junction, Col.	Mesa	4,008	14	72.9	+1.1	90	23	50	5	40	0.04	-0.31	0.02	0.0	2	20	5	5	5	se.	Weather Bureau.
Green River	Emery	4,088	8	71.7	-2.5	103	30	44	20	58	0.05	-0.03	0.05	0.0	1	18	6	0	0	SW.	J. T. Farrer, Jr.
Idaho Falls	Tooele	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	Owen Sheridan.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	R. H. Spencer.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	William Brown.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	W. M. Harmon.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	D. C. Walkey.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	Web Greene.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	H. D. Allred.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	W. C. Wightman, Jr.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	Caleb Tanner.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	J. M. Lauritzen.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	Thomas Memmott.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	Agent Rio Grande R. R.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	J. H. Mitchell.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	E. E. Edwards.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	W. A. Knight.
Idaho Falls	San Pete	4,240	2	59.0	-0.9	90	23	30	5	59	0.40	-0.00	0.40	0.0	1	8	22	0	0	SW.	E. E. Branch.
Averages				64.5	-0.1						0.08	-0.28	0.0	1	20	8	2	2	S.		
SOUTHERN.																					
Aneth	San Juan	4,800	5	72.0	-0.2	97	*23	44	6	46	T.	-0.40	T.	0.0	0	26	3	1	1	SW.	H. R. Antes.
Beaver	Beaver	5,508	0	56.2	-0.9	84	*28	43	5	50	0.00	-0.00	0.00	0.0	0	29	1	0	0	S.	A. B. Anderson.
Coyote	Garfield	5,508	4	56.7	-0.9	85	22	25	4	51	0.00	-0.00	0.00	0.0	0	29	1	0	0	S.	H. J. McCullough.
Escalante	Garfield	5,700	5	56.0	-0.9	90	30	40	5	42	T.	-0.00	T.	0.0	0	12	16	2	2	W.	W. G. Bleak.
Experiment Farm	Washington	7,318	1	73.8	-0.2	95	20	39	4	50	0.02	-0.22	0.02	0.0	1	22	6	2	2	SW.	Joseph T. Atkin.
Frisco	Beaver	4,000	10	68.6	-0.2	95	20	39	4	50	0.02	-0.22	0.02	0.0	1	22	6	2	2	SW.	S. N. Slaughter.
Giles	Wayne	4,000	10	71.1	+1.1	104	21	39	6	57	0.05	-0.19	0.05	0.0	1	20	8	2	2	SW.	J. C. White.
Grayson	San Juan	4,800	5	72.0	-0.2	97	*23	44	6	46	T.	-0.40	T.	0.0	0	26	3	1	1	SW.	Joseph D. Lyman.
Hite	Garfield	3,000	0	78.0	-1.0	103	23	51	6	44	T										

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



[illegible]

T indicates a trace of precipitation. * Precipitation included in that of following day. † Precipitation incomplete. § Received too late to included in averages.

641.05
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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

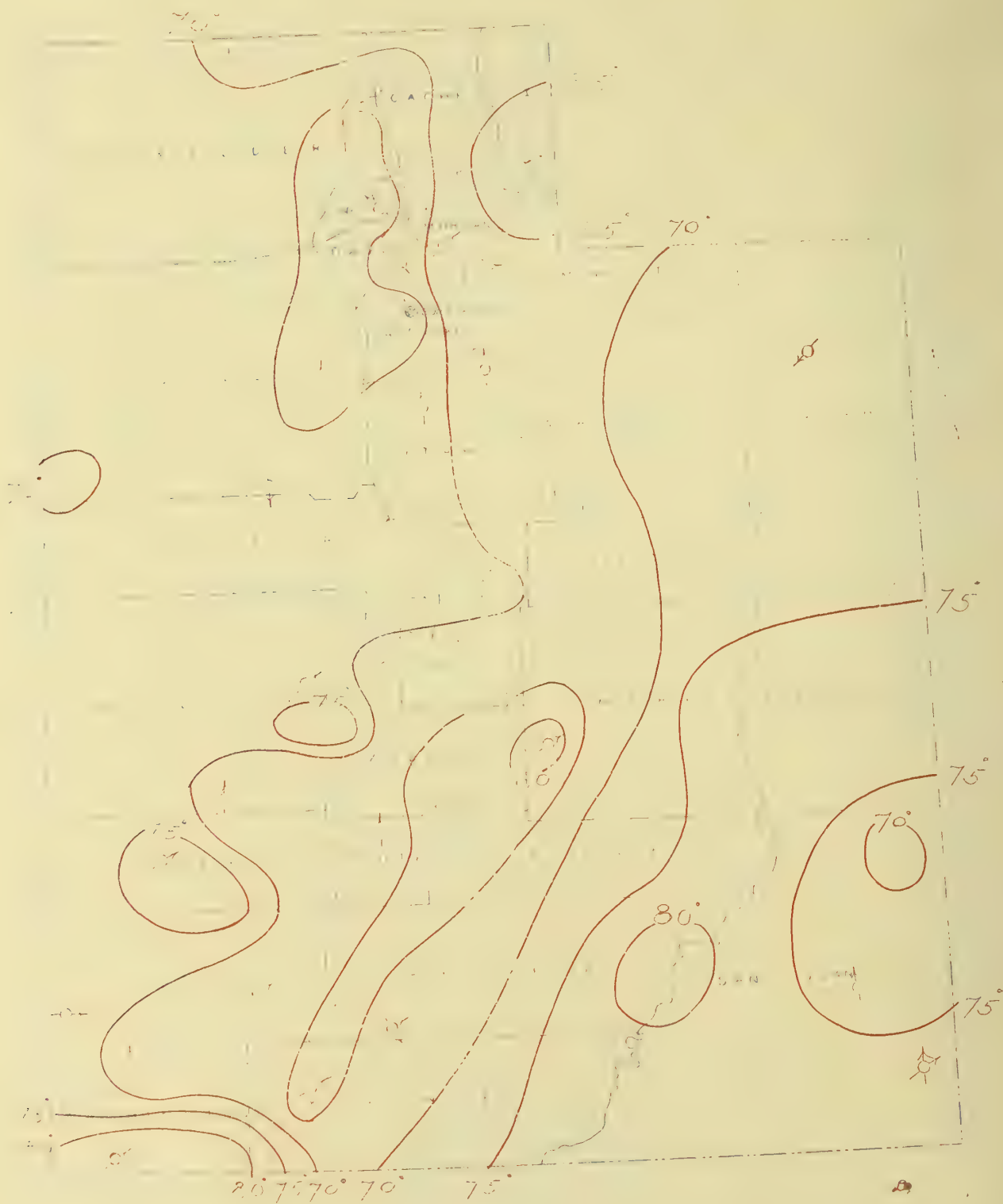
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE,
AUGUST 25, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

July, 1905.

No. 9.

WEATHER.

The first decade of July was quite warm, and almost without precipitation, causing deterioration in all green crops, and a general falling off of water in the supply creeks and reservoirs. High, drying winds accelerated the withering of growing crops, and the breaking of the drought on the 14th by the general thunderstorms was a welcome feature. The generous precipitation which fell at this time revived all crops, and arid farm crops particularly received considerable impetus. However, during this rainy period, which lasted but a few days, high winds prevailed, causing some loss of fruit, and lodging a great deal of grain. Following this period was unsettled weather, with more cloudiness and cooler temperatures and scattered thunderstorms, which caused slight precipitation. This, however, was of temporary benefit, for during the last decade the hottest weather of the month occurred.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 71.5°, or 0.1° below the normal. The highest local monthly mean was 83.6° at Hite; the lowest was 59.4° at Emery. The highest temperature recorded was 112° at Thistle on the 11th; the lowest was 26° at Thistle on the 4th, giving an absolute range for the section of 86°. The greatest daily range for any station was 77° at Thistle on the 4th. The highest temperatures generally occurred on the 6th, 11th, 26th and 27th; and the lowest on the 2nd and 3rd.

PRECIPITATION.

The average precipitation, determined from the reports of 70 stations, was 0.52 inch, or 0.07 inch below the normal. A general deficiency occurred over the northern and middle portions, being greater over the latter, while the rainfall over the southern portion of the section was double the normal. The greatest monthly amount was 2.28 inches at Ranch, while at six stations no precipitation was recorded. The greatest amount in any 24 consecutive hours was 1.40 inches at Giles on the 30th. No snow was reported.

WIND AND WEATHER.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 4,796; at Modena, 8,711; at Grand Junction, Colo., 4,175; and at Pocatello, Idaho, 5,479. The maximum velocity at Salt Lake City was 29 miles per hour from the east on the 21st; at Modena,

15 miles from the southwest on the 15th; at Grand Junction, Colo., 30 miles from the northwest on the 1st; and at Pocatello, Idaho, 36 miles from the southwest on the 31st.

The average number of clear days for the section during the month was 19; partly cloudy days, 8; cloudy days, 4. Determined from the records of automatic sunshine recorders, Salt Lake City had 80 per cent; Modena 83 per cent; Grand Junction, Colo., 73 per cent; and Pocatello, Idaho, 77 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 28 per cent, the lowest observed reading being 11 per cent on the 7th and the 10th; at Modena, 34 per cent, the lowest observed reading being 3 per cent on the 4th; at Grand Junction, Colo., 35 per cent, the lowest observed reading being 13 per cent on the 4th; and at Pocatello, Idaho, 33 per cent, the lowest observed reading being 6 per cent on the 4th.

There was an average of 2 days with .01 inch or more of precipitation; 2 over the northern, 1 over the middle, and 3 over the southern portion.

MISCELLANEOUS PHENOMENA.

(stations and dates of occurrence.)

Rainbow.—Morgan, 21, 26.

Halo, lunar.—Government Creek, 15.

Frost, light.—Henefer, 3; Marion, 3, 4, 7.

Haze, light.—Salt Lake City, 3-10, 12, 15-18, 23, 27-29.

Hail.—Emery, 25; Frisco, 30; Marion, 14; Moab, 28; Sunnyside, 14, 26.

High winds.—Aneth, 1, 8, 12, 14, 18, 19, 21-24, 28, 30; Cisco, 28; Frisco, 12; Garrison, 4, 11-16; Giles, 7; Government Creek, 1, 2, 4, 7, 13, 14, 16, 28, 30; Henefer, 1, 13, 14, 26; Levan, 11, 13; Meadowville, 4; Mount Nebo, 12-16, 28; Randolph, 1, 23-26, 29; Tropic, 1; Utah Lake Pumping Station, 11; Vernal, 14.

Thunderstorms.—Aneth, 14, 19, 30; Black Rock, 19, 29-31; Blacksmith's Fork, 19, 20; Castle Rock, 2, 14, 19-21, 23, 24, 26, 30, 31; Farmington, 14, 15, 26; Fort Duchesne, 1; Frisco, 11, 30; Giles, 13, 19, 30; Government Creek, 19, 20, 22-24; Heber, 1, 14, 21, 22, 26, 30, 31; Henefer, 1, 14, 15, 18-21, 23, 24, 26, 27, 30; Hite, 13, 14; Huntsville, 14; La Sal, 14, 21, 23, 24; Marion, 12, 14, 15, 18-20, 26, 27; Marysville, 13, 14, 18-20, 24, 28, 31; Meadowville, 2, 12, 14, 19-21, 23-27, 30; Minersville, 25, 30; Moab, 14, 19, 25, 28-30; Modena, 13, 19, 20, 24, 30, 31; Mount Nebo, 14; Morgan, 14, 15, 18, 21, 23, 26; Nephi, 14; Ogden, 14; Parowan, 13, 19, 20, 30; Payson, 14, 26; Pinto, 13, 19, 20, 22, 23; Plateau, 19, 22; Ranch, 13, 14, 24, 25; Randolph, 7, 14, 15, 21, 22; St. George, 13, 19, 20; Salt Lake City, 1, 14, 19, 20, 23, 26, 30; Scipio, 14; Sunnyside, 14, 26, 27, 30, 31; Tropic, 11, 12, 20, 21, 23-31; Utah Lake Pumping Sta., 2, 11, 14, 24-27; Vernal, 1, 11, 21, 23, 25-27; Woodruff, 14, 15, 20, 30; Levan, 14, 21, 22, 28.

FARMING OPERATIONS AND CROP CONDITIONS.

During the warm weather at the early part of the month all watered crops made remarkable growth, being materially aided by the bright sunshine, which in turn caused a noticeable setback in arid crops by its withering effect. Many crops were visited by the depredations bugs and insects frequent at this time of year, lucerne seed and sugar beets particularly being quite strongly attacked in scattered localities, though the beet crop generally

withstood the ravages of the pests, and was making an excellent showing; lucerne seed cannot recover completely from the blighting effect of the insects, combined with the influence of the long drought and continued high winds. Haying was general throughout the month; both the first and second growths of lucerne were being cut, though the latter crop was demanding the most attention. In the southern portion of the State, toward the close of the month, the third crop of hay was making a fair start. Native hay was as abundant as usual, and this, too, was being gathered between the thunder showers of the latter part of the month. Grain was rapidly ripened by the long period of warm sunshine and clear skies, and as the month closed was being harvested extensively, and being thrashed, with the yields about average. Corn improved after the rain that occurred about the middle of the month, and was tasseling at the close of the month, with quite good promise of heavy yields. Potatoes yielded well, and this staple was being cared for at a rapid rate during the last decade. Tomatoes were considerably injured by blight, and the crop will consequently be light. Peas were all taken care of during the month. Fruit was severely dealt with by the high winds, which scattered vast amounts of unripe fruit on the ground. The principal loss in this respect is confined to apples, as peaches and apricots were ripening, and much of this fruit was saved. However, the apple crop promises fairly well. The ranges revived during the latter part of the month, and stock was doing quite well, notwithstanding the long drought. The supply of irrigation water was considerably depleted, and the reservoirs and supply creeks were generally lower than usual, except possibly over the southern portion of the State.

OBSERVERS' REMARKS.

Alpine.—Peaches getting ripe; crops suffering in places where water is scarce.—T. B. Whitby.

Aneth.—An unusually large number of wind and dust storms occurred during the month, usually during the afternoon; there was considerable distant thunder, but not much precipitation at this point.—H. R. Antes.

Castle Rock.—Around this section the country is burnt up; a great many springs have become dry, and it is now difficult for animals to obtain water.—David Moore.

Emery.—Month warm and dry.—H. C. Wickman.

Frisco.—Until the last few days the month has been dry, hot and windy; the showers during the last of the month were a great relief.—S. N. Slaughter.

Government Creek.—Very dry, hot and sultry; everything drying up very fast.—Walter James.

Heber.—A remarkably hot month, and very favorable for crops; all irrigated crops doing well; water failing very fast during the latter part of the month.—John Crook.

Henefer.—A fine growing month for irrigated crops; much thunder, but little rain; range quite dry; arid farms and the range suffering from drought.—Wm. Brewer.

Huntsville.—A hot and dry month; water scarce; irrigated crops doing well. Lars Petersen.

Kanab.—Much threatening weather, but no rain. E. M. Ford.

Marysville.—Month rather dryer than the average; hay crop heavier than usual; meadow hay being cut; lucerne seed almost a total failure.—J. W. Henry.

Meadowville.—The past month has been dry and hot; the feed on the range has all dried up; winter wheat becoming ripe; grain crops are very promising. J. S. Moffat.

Moab.—Delaware grapes were ripe on the 25th.—Henry Crouse.

Mount Nebo.—The month was dry and windy; water very scarce; range about all dried up; crops all short because of the shortage of water. D. C. Walkey.

Morgan.—Hot, drying winds during the month; streams failing very fast.—T. R. G. Welch.

Nephi.—Month very hot and dry; water holding out well; ranges good; second crop of alfalfa being cut; thrashing started; crops very good; first crop of peaches ripe.—A. Madsen.

Oak City.—The month has been very warm and dry; warm, drying winds have been quite general, and as a result the second crop of lucerne will be rather short; grain all cut and now being stacked.—J. Finlinson.

Pinto.—The showers during the month produced a marked improvement in crops and the range; early wheat ripe, and harvesting begun.—J. H. Harrison.

Ranch.—A very good month; the rains have done good service to all crops; hay will be a good yield, and grain looks well.—J. W. Seaman.

Scipio.—Very dry and hot during the month; lucerne and rye harvested; other grain nearly ready.—Thos. Memmott.

Tropic.—Weather conditions favorable for plant growth, corn especially doing well.—E. P. Bolton.

Utah Lake Pumping Station.—A very dry, hot and windy month.—W. A. Knight.

Woodruff.—Rye was cut about the 15th; fall wheat ripening; water scarce; range cattle doing well, but range becoming dry, and in need of rain.—Thos. Ashton.

LATE JUNE REPORT.

Alpine: Total precipitation, 0.15 inch; greatest in any 24 consecutive hours, 0.15 inch on the 9th.

CORRECTION FOR JUNE REPORT.

In the June Monthly Report, under Observers' Remarks, Moab make Grand River 13 feet above low water mark, instead of below

GENERAL NOTES.

Through the courtesy of the Senators and the Congressman of the State of Utah, we have been enabled to supply the cooperative observers and crop correspondents of this section with a copy of the Year Book of the U. S. Department of Agriculture for the past few years, including the latest edition. The Department supply was insufficient to meet the demand.

By direction of the Chief of Bureau, the observers of the Climate and Crop Service will be designated "cooperative observers" in all official publications and correspondence in future.

GREAT SALT LAKE.

The lake gage reading on July 1st was 0.4 of a foot above zero; July 15th, 0.1 above; and on August 1st, 0.1 below zero.

Comparative Temperature and Precipitation Data for July During the Past Fourteen Years.

Year.	Mean temperature	Maximum temperature.	Minimum temperature.	Average precipitation
1892	72.8	110	27	0.28
1893	70.8	110	24	0.79
1894	70.4	109	26	0.71
1895	70.0	110	33	0.57
1896	72.0	111	33	1.81
1897	68.7	110	23	0.55
1898	73.4	115	28	0.35
1899	73.3	107	30	0.66
1900	72.6	111	30	0.09
1901	75.5	115	27	0.41
1902	68.4	112	17	0.32
1903	71.0	110	27	0.52
1904	69.7	109	27	0.68
1905	71.5	112	26	0.52

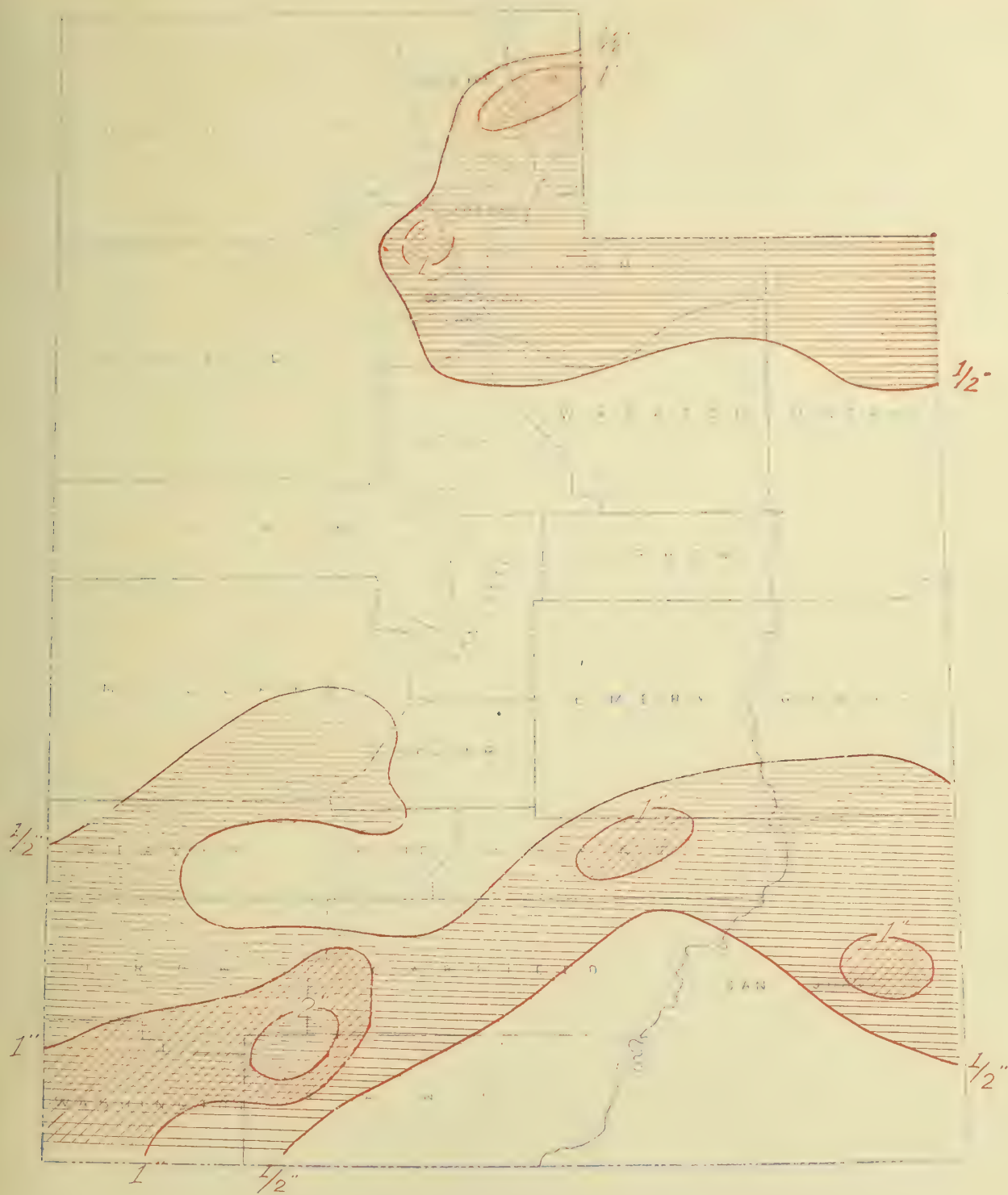
CLIMATOLOGICAL DATA FOR UTAH, JULY, 1905.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall in unmelted form.	Days with an inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine	Utah	4,900	9								0.73	0.73	0.65	0.0	2	10	10	5	W.	T. B. Whitby.
Castle Rock	Summit	4,240	35	77.1	-2.2	103	22	45	1	45	0.89	-0.46	0.65	0.0	2	10	10	5	W.	David Moore.
Ortune	Box Elder	4,240	35	77.1	-2.2	103	22	45	1	45	0.89	-0.46	0.65	0.0	2	10	10	5	W.	W. E. Johnson.
Armaghton, Wyo.	Uinta	6,959	9	64.0	-0.7	87	27	35	2	45	0.84	+0.18	0.64	0.0	3	28	8	4	SW.	Frank Tucker.
Armaghton	Davis	4,297	5	72.3	+0.1	95	27	45	2	45	1.15	+0.69	0.70	0.0	2	28	8	4	NW.	Charles Boylin.
St. Duchesne	Uintah	5,000	17	72.4	+1.4	107	12	41	3	55	0.99	+0.13	0.60	0.0	4	28	8	4	SW.	Ferdinand Rohricht.
Taber	Wasatch	5,606	12	60.1	+0.6	96	11	35	3	54	0.70	-0.12	0.40	0.0	4	28	8	4	SW.	John Creek.
Timber	Summit	5,304	6	66.2	+2.1	93	*24	33	3	59	0.98	+0.64	0.41	0.0	4	22	6	3	W.	William Brewer.
Timberville	Weber	5,100	10								0.89	+0.24	0.59	0.0	4	23	7	4	SW.	Lars Peterson.
Timberville	Box Elder	4,230	27	71.0	-6.8	97	11	45	2	48	0.00	-0.33	0.00	0.0	0	28	1	2	SW.	Agent So. Pacific Co.
Timberville	Cache	4,507	14	74.0	+3.1	99	26	41	15	43	0.20	+0.24	0.16	0.0	0	28	1	2	SW.	W. M. Jardine.
Timberville	Box Elder	4,230	27	71.0	-6.8	97	11	45	2	48	0.00	-0.33	0.00	0.0	0	28	1	2	SW.	W. M. Maughams.
Timberville	Rich	6,200	10	65.3	+1.1	90	*11	38	3	45	0.35	-0.24	0.35	0.0	0	24	6	1	W.	J. S. Moffat.
Timberville	Cache	4,818	10								0.18	-0.20	0.18	0.0	1	24	6	1	SW.	Fred Yeates.
Timberville	Morgan	5,080	2	66.2		93	26	39	4	47	0.65	-0.20	0.40	0.0	2	24	6	1	SW.	T. R. G. Welch.
Timberville	Cassia	4,190	12								0.19	-0.21	0.03	0.0	2	22	4	3	SW.	Thomas Adams.
Timberville	Weber	4,370	4	75.7	-1.0	98	24	32	*2	33	0.03	-0.21	0.03	0.0	1	21	4	6	W.	Enoch Farr.
Timberville	Weber	4,370	35	78.2	-1.0	99	*12	62	*23		0.03	-0.21	0.03	0.0	1	21	4	6	W.	W. H. Chevers.
Timberville	Summit	7,800	8								0.85	+0.40	0.70	0.0	6	14	15	2	E.	P. S. McKimmis.
Timberville	Bannock	4,183	5	72.1	+1.8	90	23	17	3	43	1.21	-0.78	0.78	0.0	5	22	7	2	SW.	Weather Bureau.
Timberville	Rich	4,183	5	72.1	+1.8	90	23	17	3	43	1.21	-0.78	0.78	0.0	5	22	7	2	SW.	Wm. Rox.
Timberville	Salt Lake	4,300	31	75.9	+1.4	97	27	53	2	34	0.62	+0.09	0.61	0.0	2	22	7	2	SW.	Francis W. Bailey.
Timberville	Salt Lake	4,300	31	75.9	+1.4	97	27	53	2	34	0.62	+0.09	0.61	0.0	2	22	7	2	SW.	Section Center.
Timberville	Box Elder	4,300	15	69.6	+0.7	97	23	39	*2	54	0.04	-0.36	0.04	0.0	1	13	17	1	S.	Joseph Robbins.
Timberville	Tooele	4,900	9	75.2	+1.7	97	26	53	2	29	0.11	-0.35	0.11	0.0	1	26	4	1	S.	I. J. Elkington.
Timberville	Utah	4,900	10	72.6	+1.2	95	18	48	3	39	0.52	-0.24	0.32	0.0	6	21	3	7	NE.	Joab Collier.
Timberville	Oneida	4,400	7	65.9	+1.3	88	23	37	3	54	0.47	-0.03	0.15	0.0	7	22	6	3	S.	William Chatterton.
Timberville	Rich	6,500	5	60.8	0.0	89	12	34	9	53	0.85	+0.47	0.32	0.0	3	18	5	5	W.	Thomas Ashton.
Averages				71.8	+0.6						0.55	-0.20	0.0	0.0	2	22	6	3	W.	
MIDDLE.																				
Black Rock	Millard	4,872	5	69.9	+1.1	98	11	41	2	43	0.65	+0.40	0.50	0.0	2	13	5	4	S.	Willard Burbank.
Black Rock	Emery	5,500	6	68.1	-3.3	93	*10	39	*2	54	0.45	-0.09	0.45	0.0	1	16	15	0		James Jeffs.
Black Rock	Grand	4,395	13	77.6	-2.4	100	26	50	4	43	0.01	-0.25	0.01	0.0	1	16	15	0		H. T. Matthews.
Black Rock	Millard	4,872	11								0.01	-0.25	0.01	0.0	1	16	15	0		S. W. Western.
Black Rock	Emery	5,260	5	59.1	-4.8	78	*7	42	*2	32	T.	-0.18	T.	0.0	0	14	4	13	SW.	H. C. Wickman.
Black Rock	Fillmore	5,100	15	76.6	+1.7	106	26	48	8	46	0.53	+0.01	0.50	0.0	2	20	11	0	N.	J. J. Starley.
Black Rock	Millard	4,872	2	72.6		97	*11	38	5	54	0.10	-0.10	T.	0.0	1	16	9	4	S.	E. M. Smith.
Black Rock	Tooele	5,277	5	74.7	+2.0	99	*26	45	2	45	T.	-0.34	T.	0.0	0	20	11	0	N.	Walter James.
Black Rock	Mesa	4,608	14	76.8	-1.0	97	12	52	2	37	0.16	-0.39	0.11	0.0	3	17	13	1	NW.	Weather Bureau.
Black Rock	Emery	4,681	8	77.2	-2.3	104	*7	49	*2	53	T.	-0.22	T.	0.0	0	20	5	6		J. T. Farrer, Jr.
Black Rock	Tooele	4,900	2	66.2		98	26	32	2	54	0.00	0.00	0.00	0.0	0	10	21	0		Owen Sheridan.
Black Rock	San Pete	5,600	15	71.9	+1.0	96	24	47	*2	12	0.34	-0.25	0.17	0.0	3	24	5	2	SW.	R. H. Spencer.
Black Rock	San Pete	5,575	11	68.4	-2.9	95	26	41	3	43	T.	-0.54	T.	0.0	0	20	11	0		William Brown.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	W. M. Harmon.
Black Rock	San Pete	5,859	13	71.4	-0.7	97	*26	43	1	43	0.17	-0.55	0.17	0.0	1	21	10	0		D. C. Walkey.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	Web Greene.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	H. D. Alfred.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	J. Finlinson.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	W. C. Wightman, Jr.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	Caleb Tanner.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	J. M. Lauritzen.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	Thomas Memmott.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	Agent Rio Grande R. R.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	J. H. Mitchell.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	E. E. Edwards.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	W. A. Knight.
Black Rock	Utah	4,656	3	74.2		100	11	46	4	44	0.11	-0.07	0.07	0.0	2	20	9	2	NE.	E. E. Branch.
Averages				71.9	-1.3						0.21	-0.29	0.0	0.0	1	16	9	3	SW.	
SOUTHERN.																				
Aneth	San Juan	4,800	5	76.4	-2.4	100	11	49	3	48	0.37	-0.03	0.21	0.0	3	20	10	1	SW & S	H. R. Antes.
Beaver	Garfield	4,800	4	61.0		92	*10	32	*2	52	0.38	0.23	0.0	3	15	4	12			A. B. Anderson.
Coyote	Garfield	4,800	4	61.0		92	*10	32	*2	52	0.38	0.23	0.0	3	15	4	12			H. J. McCullough.
Escalante	Garfield	5,700	5																	W. G. Bleak.
Esper. Farm - T 1	Washington	5,700	1	80.7		107	*6	51	11	50										Joseph T. Atkin.
Exco	Beaver	7,318	11	76.0	+2.0	101	10	50	15	41	0.58	-0.23	0.45	0.0	4	12	17	2	SW.	S. N. Slaughter.
Giles	Wayne	1,000	10	71.6	-3.0	106	6	44	3	58	1.50	+1.10	1.40	0.0	3	19	8	4		J. C. White.
Grayson	San Juan	7,446	6	83.6	-1.1	109	19	46	1	50	1.25	-0.56	0.56	0.0	5	21	10	0	S.	Joseph D. Lyman.
Hite	Garfield	3,000	6	83.6	-1.1	109	19	46	1	50	1.25	-0.56	0.56	0.0	5	21	10	0	S.	F. W. Gibbons.
Kanab	Kane	4,925	5	68.6	-2.4	88	11	42	3	35	0.95	+0.39	0.33	0.0	3	17	6	14		E. M. Ford.
La Sal	San Juan	7,000	5	66.0	-2.4	88	11	42												

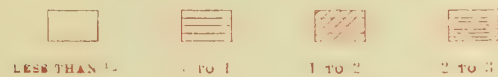
MAXIMUM AND MINIMUM TEMPERATURES FOR UTAH, JULY, 1905.

Stations and sections.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		25.		26.		27.		28.		29.		30.		31.		32.		33.		34.		35.		36.		37.		38.		39.		40.		41.		42.		43.		44.		45.		46.		47.		48.		49.		50.		51.		52.		53.		54.		55.		56.		57.		58.		59.		60.		61.		62.		63.		64.		65.		66.		67.		68.		69.		70.		71.		72.		73.		74.		75.		76.		77.		78.		79.		80.		81.		82.		83.		84.		85.		86.		87.		88.		89.		90.		91.		92.		93.		94.		95.		96.		97.		98.		99.		100.		101.		102.		103.		104.		105.		106.		107.		108.		109.		110.		111.		112.		113.		114.		115.		116.		117.		118.		119.		120.		121.		122.		123.		124.		125.		126.		127.		128.		129.		130.		131.		132.		133.		134.		135.		136.		137.		138.		139.		140.		141.		142.		143.		144.		145.		146.		147.		148.		149.		150.		151.		152.		153.		154.		155.		156.		157.		158.		159.		160.		161.		162.		163.		164.		165.		166.		167.		168.		169.		170.		171.		172.		173.		174.		175.		176.		177.		178.		179.		180.		181.		182.		183.		184.		185.		186.		187.		188.		189.		190.		191.		192.		193.		194.		195.		196.		197.		198.		199.		200.		201.		202.		203.		204.		205.		206.		207.		208.		209.		210.		211.		212.		213.		214.		215.		216.		217.		218.		219.		220.		221.		222.		223.		224.		225.		226.		227.		228.		229.		230.		231.		232.		233.		234.		235.		236.		237.		238.		239.		240.		241.		242.		243.		244.		245.		246.		247.		248.		249.		250.		251.		252.		253.		254.		255.		256.		257.		258.		259.		260.		261.		262.		263.		264.		265.		266.		267.		268.		269.		270.		271.		272.		273.		274.		275.		276.		277.		278.		279.		280.		281.		282.		283.		284.		285.		286.		287.		288.		289.		290.		291.		292.		293.		294.		295.		296.		297.		298.		299.		300.		301.		302.		303.		304.		305.		306.		307.		308.		309.		310.		311.		312.		313.		314.		315.		316.		317.		318.		319.		320.		321.		322.		323.		324.		325.		326.		327.		328.		329.		330.		331.		332.		333.		334.		335.		336.		337.		338.		339.		340.		341.		342.		343.		344.		345.		346.		347.		348.		349.		350.		351.		352.		353.		354.		355.		356.		357.		358.		359.		360.		361.		362.		363.		364.		365.		366.		367.		368.		369.		370.		371.		372.		373.		374.		375.		376.		377.		378.		379.		380.		381.		382.		383.		384.		385.		386.		387.		388.		389.		390.		391.		392.		393.		394.		395.		396.		397.		398.		399.		400.		401.		402.		403.		404.		405.		406.		407.		408.		409.		410.		411.		412.		413.		414.		415.		416.		417.		418.		419.		420.		421.		422.		423.		424.		425.		426.		427.		428.		429.		430.		431.		432.		433.		434.		435.		436.		437.		438.		439.		440.		441.		442.		443.		444.		445.		446.		447.		448.		449.		450.		451.		452.		453.		454.		455.		456.		457.		458.		459.		460.		461.		462.		463.		464.		465.		466.		467.		468.		469.		470.		471.		472.		473.		474.		475.		476.		477.		478.		479.		480.		481.		482.		483.		484.		485.		486.		487.		488.		489.		490.		491.		492.		493.		494.		495.		496.		497.		498.		499.		500.		501.		502.		503.		504.		505.		506.		507.		508.		509.		510.		511.		512.		513.		514.		515.		516.		517.		518.		519.		520.		521.		522.		523.		524.		525.		526.		527.		528.		529.		530.		531.		532.		533.		534.		535.		536.		537.		538.		539.		540.		541.		542.		543.		544.		545.		546.		547.		548.		549.		550.		551.		552.		553.		554.		555.		556.		557.		558.		559.		560.		561.		562.		563.		564.		565.		566.		567.		568.		569.		570.		571.		572.		573.		574.		575.		576.		577.		578.		579.		580.		581.		582.		583.		584.		585.		586.		587.		588.		589.		590.		591.		592.		593.		594.		595.		596.		597.		598.		599.		600.		601.		602.		603.		604.		605.		606.		607.		608.		609.		610.		611.		612.		613.		614.		615.		616.		617.		618.		619.		620.		621.		622.		623.		624.		625.		626.		627.		628.		629.		630.		631.		632.		633.		634.		635.		636.		637.		638.		639.		640.		641.		642.		643.		644.		645.		646.		647.		648.		649.		650.		651.		652.		653.		654.		655.		656.		657.		658.		659.		660.		661.		662.		663.		664.		665.		666.		667.		668.		669.		670.		671.		672.		673.		674.		675.		676.		677.		678.		679.		680.		681.		682.		683.		684.		685.		686.		687.		688.		689.		690.		691.		692.		693.		694.		695.		696.		697.		698.		699.		700.		701.		702.		703.		704.		705.		706.		707.		708.		709.		710.		711.		712.		713.		714.		715.		716.		717.		718.		719.		720.		721.		722.		723.		724.		725.		726.		727.		728.		729.		730.		731.		732.		733.		734.		735.		736.		737.		738.		739.		740.		741.		742.		743.		744.		745.		746.		747.		748.		749.		750.		751.		752.		753.		754.		755.		756.		757.		758.		759.		760.		761.		762.		763.		764.		765.		766.		767.		768.		769.		770.		771.		772.		773.		774.		775.		776.		777.		778.		779.		780.		781.		782.		783.		784.		785.		786.		787.		788.		789.		790.		791.		792.		793.		794.		795.		796.		797.		798.		799.		800.		801.		802.		803.		804.		805.		806.		807.		808.		809.		810.		811.		812.		813.		814.		815.		816.		817.		818.		819.		820.		821.		822.		823.		824.		825.		826.		827.		828.		829.		830.		831.		832.		833.		834.		835.		836.		837.		838.		839.		840.		841.		842.		843.		844.		845.		846.		847.		848.		849.		850.		851.		852.		853.		854.		855.		856.		857.		858.		859.		860.		861.		862.		863.		864.		865.		866.		867.		868.		869.		870.		871.		872.		873.		874.		875.		876.		877.		878.		879.		880.		881.		882.		883.		884.		885.		886.		887.		888.		889.		890.		891.		892.		893.		894.		895.		896.		897.		898.		899.		900.		901.		902.		903.		904.		905.		906.		907.		908.		909.		910.		911.		912.		913.		914.		915.		916.		917.		918.		919.		920.		921.		922.		923.		924.		925.		926.		927.		928.		929.		930.		931.		932.		933.		934.		935.		936.		937.		938.		939.		940.		941.		942.		943.		944.		945.		946.		947.		948.		949.		950.		951.		952.		953.		954.		955.		956.		957.		958.		959.		960.		961.		962.		963.		964.		965.		966.		967.		968.		969.		970.		971.		972.		973.		974.		975.		976.		977.		978.		979.		980.		981.		982.		983.		984.		985.		986.		987.		988.		989.		990.		991.		992.		993.		994.		995.		996.		997.		998.		999.		1000.	
Castroville, Cal.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

T indicates a trace of precipitation. * Precipitation included in that of following day. † Precipitation incomplete. § Received too late to included in averages.

581.06
U.S. DEPT. OF AGRIC.
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

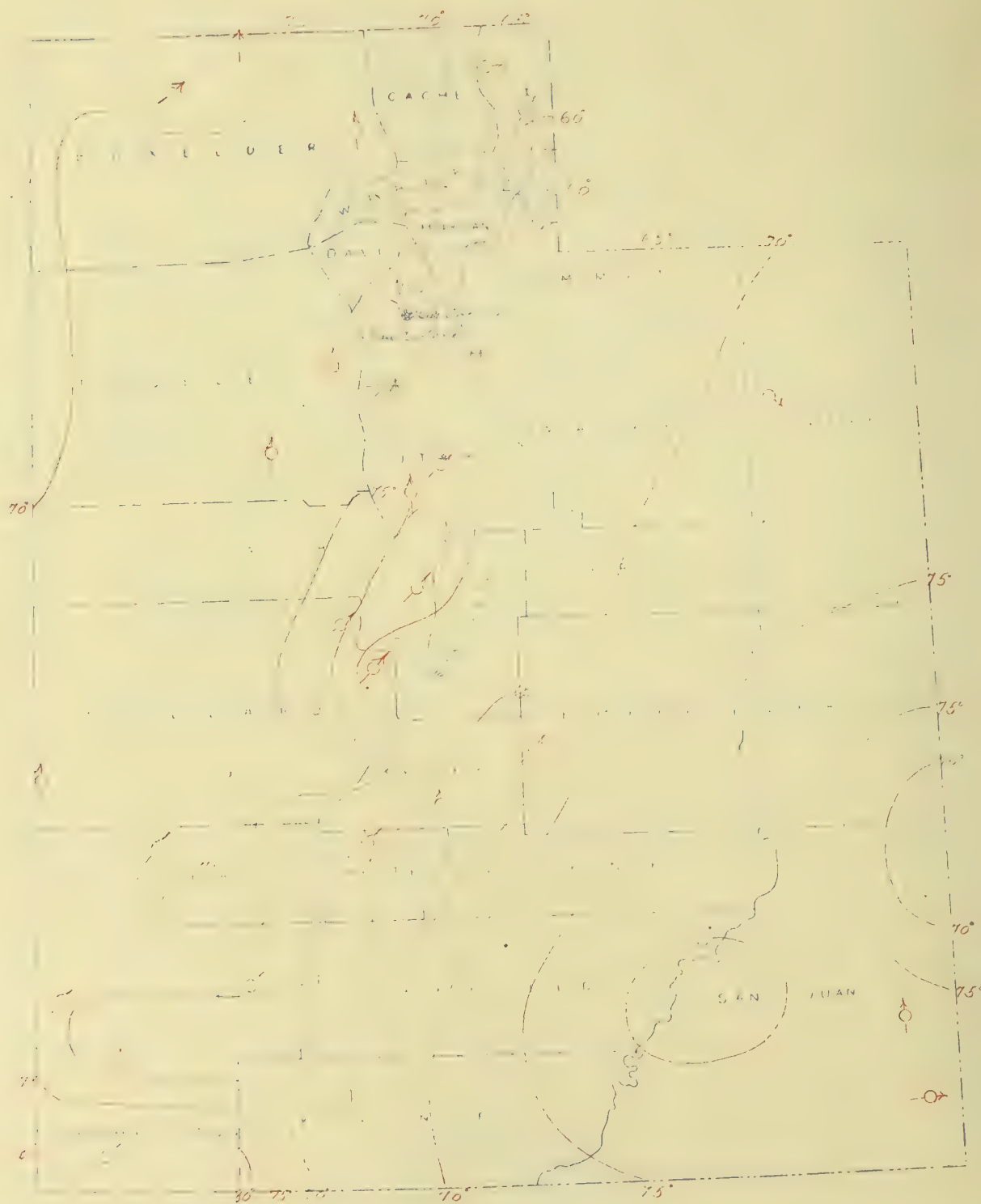
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
SEPT. 26, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

August, 1905.

No. 10.

WEATHER.

The striking feature of the weather during the month was the number and violence of the thunderstorms that occurred. These storms were, in general, accompanied by high winds that caused some local damage to grain and hay in stack. The precipitation was, however, disappointing compared to the violence of the attendant electrical features, and was insufficient for vegetation in many localities. The days were usually quite warm, but the nights were cool, and gave evidence of the advancement of the season. Frosts occurred in the more elevated districts toward the close of the month, but no damage of consequence resulted therefrom.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 71.4° , or 0.2° above the normal. The highest local monthly mean was 84.2° at Hite; the lowest was 59.2° at Woodruff. The highest temperature recorded was 110° at Rockville on the 6th and at St. George on the 7th; the lowest was 26° at Woodruff on the 31st, giving an absolute range for the section of 84° . The greatest daily range for any station was 72° at Thistle on the 14th. The highest temperatures generally occurred from the 6th to the 8th, and the lowest during the middle of the month.

PRECIPITATION.

The average precipitation, determined from the reports of 72 stations, was 0.74 inch, or 0.04 inch below the normal. There was an excess over the northern portion, while deficiencies were reported over the middle and southern portions. The greatest monthly amount was 2.22 inches at Ibapah; the least, a trace at La Sal. The greatest amount in any 24 consecutive hours was 1.64 inches at Wellington on the 24th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 1,521; at Modena, 7,950; at Grand Junction, Colo., 3,800; and at Pocatello, Idaho, 5,931. The maximum velocity at Salt Lake City was 38 miles per hour from the north on the 25th; at Modena, 55 miles from the west on the 20th; at Grand Junction, Colo.,

24 miles from the southwest on the 27th; and at Pocatello, Idaho, 29 miles from the southwest on the 13th.

The average number of clear days for the section during the month was 17; partly cloudy days, 9; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 71 per cent; Modena 77 per cent; Grand Junction, Colo., 71 per cent; and Pocatello, Idaho, 80 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 34 per cent, the lowest observed reading being 11 per cent on the 31st; at Modena, 44 per cent, the lowest observed reading being 8 per cent on the 6th and 17th; at Grand Junction, Colo., 37 per cent, the lowest observed reading being 11 per cent on the 16th; and at Pocatello, Idaho, 36 per cent, the lowest observed reading being 6 per cent on the 31st.

There was an average of 4 days with .01 inch or more of precipitation, this average extending over the entire section.

MISCELLANEOUS PHENOMENA.

Stations and dates of occurrence

Killing frost.—Randolph, 31.

Coronae, lunar.—Government Creek, 8, 9.

Light frost.—Marion, 14, 16; Panguitch, 16; Randolph, 16.

Rainbows.—Government Creek, 25, 26; Henefer, 28, 30; Morgan, 22, 28.

Hail. Emery, 20; Heber, 2, 7, 9-12, 28; Henefer, 2; Indianola, 22; Kanab, 23; Levan, 24; Marion, 2; Marysville, 2; Meadowville, 4, 12; Modena, 9; Plateau, 9.

High winds.—Aneth, 23, 24; Ft. Duchesne, 4, 8, 12, 16-18; Garrison, 24; Government Creek, 10, 20, 24; Henefer, 1, 15-17; Marion, 2, 9, 28, 30; Meadowville, 15-17; Mt. Nebo, 24, 25; Payson, 20; Randolph, 12; Salt Lake City, 1, 3, 5, 10, 14, 20, 22, 25, 26; Snowville, 24; Modena, 13; Utah Lake Pumping Station, 1, 24, 31.

Thunderstorms.—Black Rock, 9, 20, 24, 25, 28, 29; Castle Rock, 2, 5, 10-12, 22-24, 28, 29; Farmington, 22, 24, 28, 30; Frisco, 9, 11, 20, 21, 23, 24, 28, 29; Giles, 1, 9, 10, 24, 26, 29; Government Creek, 2, 4, 11, 12, 22, 24-26, 28; Heber, 2, 7, 8, 10-12, 28; Henefer, 2, 5, 10-12, 22-24, 26, 28; Huntsville, 2, 22, 24, 25, 28, 29; Indianola, 22, 26, 27; Kanab, 23, 24; La Sal, 9, 11, 29; Levan, 1, 5, 10-12, 22, 24, 28; Marion, 2, 11, 12, 22; Marysville, 1, 9-11, 20-28; Meadowville, 1, 4, 5, 12, 22, 24, 25, 28; Minersville, 24; Moab, 1, 9, 10, 24, 28; Morgan, 1, 2, 5, 12, 22-24, 26, 28, 30; Modena, 1, 2, 8-11, 21-24; Nephi, 11, 22, 24, 28; Ogden, 22, 24-26; Parowan, 1, 7, 24, 29; Payson, 2, 5, 12, 22, 23, 26, 28; Pinto, 1; Plateau, 9-11, 23, 24; Randolph, 13, 20, 24, 25; St. George, 9, 13, 27; Salt Lake City, 1, 2, 4, 5, 22, 24-26, 28-30; Scipio, 1, 23-25, 27; Snowville, 9, 24; Tooele, 22, 24; Tropic, 8, 9, 22-25, 28; Utah Lake Pumping Station, 2, 4, 10-12, 22, 24, 26, 28; Vernal, 3, 4, 23; Woodruff, 4, 26.

CROP CONDITIONS.

Owing to a depleted water supply, the work of irrigation was curtailed to some extent in many localities. In consequence, growing crops in such sections suffered somewhat for moisture. Where sufficiently watered, however, crops made good growth, and at the close of the month were rapidly maturing. The harvesting of grain continued, and at the close of the month was nearing completion, with thrashing under general headway. Yields were generally reported up to the average, excepting late-sown wheat, which was damaged in localities by rust, and in the southern counties by chinch bugs, which were reported unusually numerous this year. Arid land wheat was, however, generally below the average, many correspondents reporting the grain considerably shrunken. The second crop of lucerne was gathered, and the third crop was maturing or being harvested. Beets were rapidly maturing, and by the close of the month were nearly ready for harvesting; the crop was generally in good condition, though blight and insects caused deterioration in localities. Corn made rapid advancement, and was generally in good condition, though wormy in places. The range was very dry in many districts. Stock was generally in good condition.

OBSERVERS' REMARKS.

Alpine.—Very hot days, with cool nights; second crop of lucerne nearly all in; it was very light; grasshoppers plentiful.—Thomas B. Whitby.

Black Rock.—The month was warm; the precipitation was a benefit, but after two such dry months as June and July, it could not do more than freshen the verdure.—Willard Burbank.

Castle Dale.—There have been light rains in the mountains, and we have had some big floods.—James Jeffs.

Emery.—Hail on the 20th fell in some parts of the field, and did some damage to ripe grain.—H. C. Wickman.

Government Creek.—Dry, warm and sultry; crops and ranges very badly dried up.—Walter James.

Heber.—Very dry, hot month.—John Crook.

Henefer.—A fine month for harvest; rain too late to help crops.—Wm. Brewer.

Huntsville.—The month was quite hot and dry until the latter part, when some thundershowers occurred, doing some damage to the second crop of lucerne.—Lars Petersen.

Kanab.—Terrible thunder and lightning on the 23rd and 24th, with hail on the 23rd, but it did very little damage.—E. M. Ford.

Levan.—A favorable month for harvesting and thrashing.—Wm. Brown.

Marion.—The frost in the middle of the month did no damage; this is the best season for years.—James Woolstenhulme.

Marysville.—Nearly all grain cut, and most of it in stack; alfalfa being cut, but the crop is mostly short.—John W. Henry.

Meadowville.—This has been an exceptionally fine month; no sign of frost; nearly all the grain is harvested; the second crop of lucerne is doing well.—J. S. Moffat.

Morgan.—An unusual amount of thunder without rain; has been fine month for crops and harvesting; hot days and cool nights. T. R. G. Welch.

Mt. Nebo.—Hot and dry month; vegetation badly burned range all dried up.—D. C. Walkey.

Nephi.—Plums ripe and going to waste; tomato crop small about all vines wilted; good crop of rare-ripe peaches; thrashing still in action.—A. M. Madsen.

St. George.—At 6 p. m. of the 9th two storms came up, one from the south and the other from the southwest, with vivid lightning and thunder. Both passed to the east without leaving a trace of rain here. The wind blew a hurricane from the north west. On the 13th another such storm came from the northwest passing east with the same effect. The storm on the 27th arose from the southwest, threatening a deluge, but passed over to northeast with very little rain here.—James G. Bleak.

Tropic.—Month very warm, with showers; heavy rains fell on the mountains; range much refreshed, and crops doing well. Edw. P. Bolton.

Utah Lake Pumping Station.—Rains latter part of month were beneficial to all kinds of vegetation.—W. A. Knight.

Vernal.—There have been a great many local storms all around, but none of them did any good in the valley or on the watershed; water is lower than for many years at this time of the season.—Joab Collier.

Woodruff.—The worst electric storm ever known visited this section during the night of the 4th; it endured about four hours and did some slight damage to buildings.—Thomas Ashton.

LATE REPORT FOR JULY.

Deseret: Mean temperature, 71.5°; departure from the normal, -0.3°; highest temperature, 100° on the 10th; lowest, 39° on the 2nd; greatest daily range, 56°; total precipitation, none; departure from the normal, -0.11 inch; number of clear days, 17; partly cloudy days, 6; cloudy days, 8; prevailing direction of the wind, south.

GREAT SALT LAKE.

The stage of the water on August 1st was 0.1, on August 15th 0.3, and on September 1st, 0.6 foot below the zero of the gage.

Comparative Temperature and Precipitation Data for August During the Past Fourteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	70.6	113	23	0.27
1893	68.1	112	25	0.23
1894	69.5	107	25	0.81
1895	70.6	110	29	0.35
1896	69.7	107	33	1.04
1897	69.4	111	35	0.40
1898	73.5	110	35	0.60
1899	65.7	102	24	0.96
1900	68.5	109	26	0.34
1901	72.3	111	31	1.63
1902	69.4	110	23	0.51
1903	71.8	110	27	0.38
1904	69.4	104	22	1.06
1905	71.4	110	26	0.74

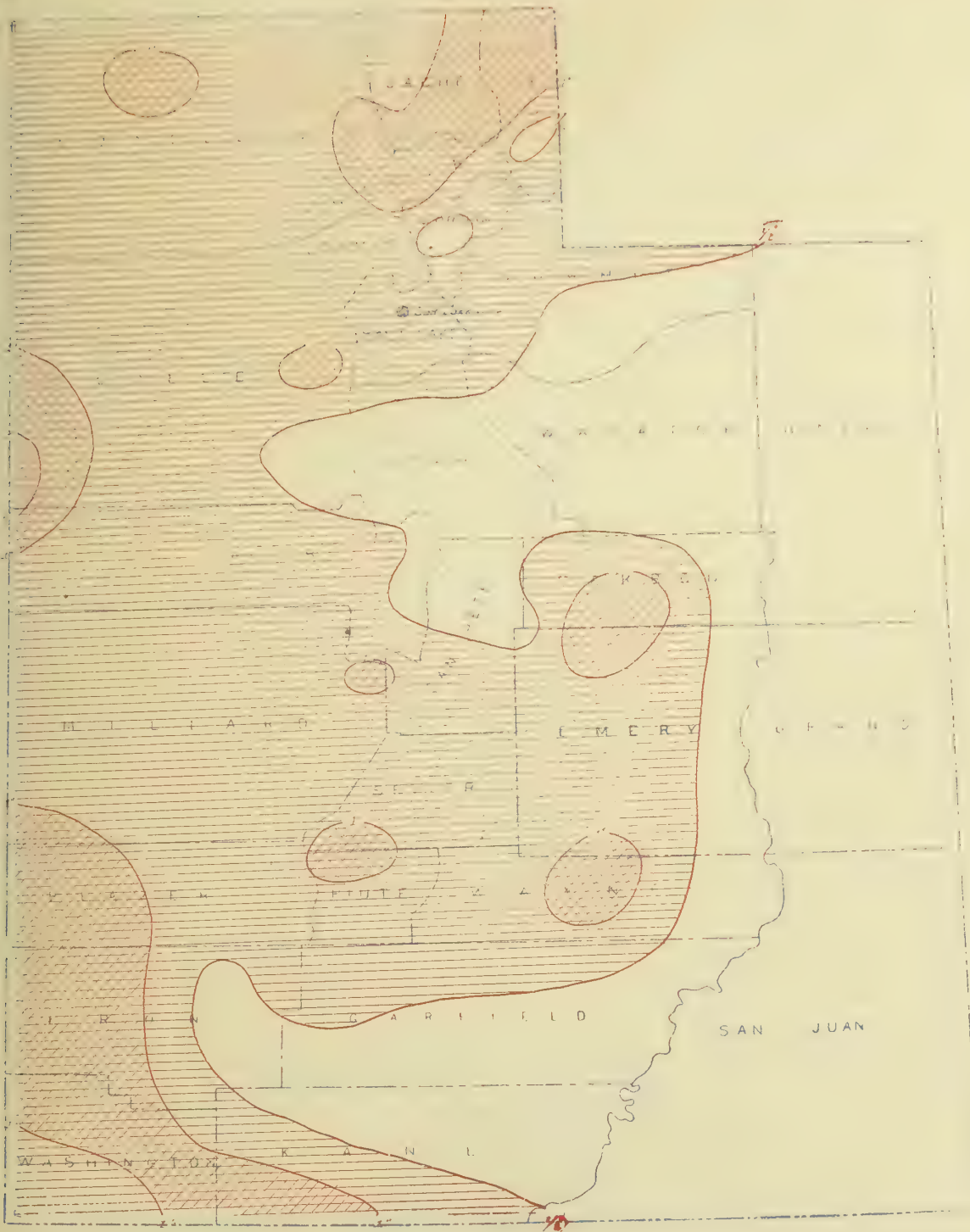
CLIMATOLOGICAL DATA, AUGUST, 1905.

Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alpine	Utah	4,900	9							0.61	-0.41	0.35	0.0	2						T. B. Whitby
Castle Rock	Summit		1							0.86		0.32	0.0	9	15	12	1	W.	David Moore.	
Crane	Box Elder	4,210	35	75.1	+0.6	105	2	45	31	51	+0.69	0.52	0.0	3	23	7	1	S.	W. E. Johnson.	
Cranton, Wyo	Uinta	9,950	9	62.0	+0.5	88	36	*16	47	0.71	-0.61	0.29	0.0	8	22	9	0	W.	Frank Tucker.	
Cranton, Wyo	Davis	4,297	5	71.4	+0.3	92	*2	42	20	43	+0.07	0.52	0.0	1	25	6	0	NE.	Charles Boylin.	
Cranton, Wyo	Uintah	5,000	17	71.4	+1.8	99	3	42	*16	52	-0.61	0.06	0.0	1	30	0	1	NW.	Ferdinand Rohricht.	
Cranton, Wyo	Wasatch	5,606	12	66.2	+1.4	91	*7	34	18	57	-0.22	0.25	0.0	5	19	8	4	S.	John Crook.	
Cranton, Wyo	Summit	5,301	6	65.6	+1.6	95	8	35	18	55	-0.93	+0.07	0.32	0.0	8	15	9	7	W.	William Brewer.
Cranton, Wyo	Weber	5,100	10							1.12	+0.57	0.60	0.0	3	19	10	2	W.	Lars Petersen.	
Cranton, Wyo	Box Elder	4,230	27	67.8	-7.3	103	3	38	30	1.13	+0.96	0.63	0.0	4	17	12	2	SW.	Agent So. Pacific Co.	
Cranton, Wyo	CACHE	4,597	14	73.4	+2.7	99	8	44	31	49	0.73	+0.23	0.28	0.0	6				W. M. Jardine.	
Cranton, Wyo	Box Elder			72.8		98	7	48	10	44	0.65		0.39	0.0	5				W. M. Maughams.	
Cranton, Wyo	Rich	6,200	6	65.4	+0.6	89	27	41	16	41	1.77	+1.25	0.80	0.0	6	23	1	1	W.	J. S. Moffat.
Cranton, Wyo	CACHE	4,818	10							0.95	+0.30	0.40	0.0	4					Fred Yeates.	
Cranton, Wyo	Morgan	5,800	2	67.0		92	*7	38	18	47	0.39		0.26	0.0	4	21	7	3	SW.	T. R. G. Welch.
Cranton, Wyo	Cassia	4,191	12																Thomas Adams.	
Cranton, Wyo	Weber	4,310	4	74.3		93	8	51	17	31	1.17		0.58	0.0	5	24	5	1	SE.	Enoch Farr.
Cranton, Wyo	Weber	4,316	35	77.1	+0.4	94	3	61	18	1.04	+0.58	0.61	0.0	3	20	3	8	W.	W. H. Chevers.	
Cranton, Wyo	Summit	7,800	8																P. S. McKimmins.	
Cranton, Wyo	Bannock	4,383	5	72.4	+2.8	96	8	48	18	42	0.35	-0.07	0.15	0.0	5	13	18	0	E.	Weather Bureau.
Cranton, Wyo	Rich									1.07		0.24	0.0	6	20	3	8	SW.	Wm. Rex.	
Cranton, Wyo	Salt Lake		1	77.6		93	7	58	19	32	0.82		0.52	0.0	6				Francis W. Bailey.	
Cranton, Wyo	Salt Lake	4,366	31	75.8	+1.2	96	8	55	18	33	0.58	-0.14	0.32	0.0	3	15	10	6	SE.	Section Center.
Cranton, Wyo	Box Elder	4,360	15	68.4	+0.5	96	8	39	18	52	0.16	-0.08	0.08	0.0	2	18	13	0	S.	Joseph Robbins.
Cranton, Wyo	Tooele	4,900	9	74.4	+0.9	96	8	55	16	32	1.15	+0.63	0.75	0.0	5	23	5	3	S.	I. J. Elkington.
Cranton, Wyo	Uintah		10	71.9	+2.0	93	*8	48	31	41	0.41	-0.14	0.14	0.0	5	23	5	3		Joab Collier.
Cranton, Wyo	Oneida	4,460	7																William Chatterton.	
Cranton, Wyo	Rich	0,560	8	59.2	-1.3	90	8	26	31	57	0.11	-0.41	0.11	0.0	1	16	12	3	W.	Thomas Ashton.
Averages				70.8	+0.1					0.78	+0.19			0.0	4	20	7	1	W.	
MIDDLE.																				
Black Rock	Millard	4,872	5	70.6	+1.8	95	20	43	12	44	0.75	-0.13	0.28	0.0	5	17	11	3	S.	Willard Burbank.
Black Rock	Emery	5,500	6	66.8	-0.9	95	21	38	*13	52	0.98	+0.30	0.52	0.0	4	18	13	0		James Jeffs.
Black Rock	Grand	4,385	13	74.9	-2.6	98	2	48	17	39	0.41	-0.01	0.30	0.0	3					H. T. Matthews.
Black Rock	Millard	4,541	11																	S. W. Western.
Black Rock	Emery	6,260	5	62.3	-3.1	79	7	41	19	29	0.90	+0.18	0.70	0.0	2	10	4	17	SW.	H. C. Wickman.
Black Rock	Millard	5,100	15	70.0	+2.1	105	20	50	*16	46	0.62	-0.15	0.22	0.0	7					J. J. Starley.
Black Rock	Millard		2	72.3		95	*7	43	16	45	0.83		0.47	0.0	3	18	3	9	S.	E. M. Smith.
Black Rock	Tooele	5,277	5	73.9	+1.3	95	8	48	16	41	0.50	-0.93	0.17	0.0	5	17	13	1	S.	Walter James.
Black Rock	Mesa	4,608	14	77.2	+1.6	98	22	56	18	36	0.33	-0.82	0.24	0.0	3	21	8	2	E.	Weather Bureau.
Black Rock	Emery	4,080	8	78.4	+1.4	104	22	48	17	53	0.06	-0.66	0.06	0.0	1	22	3	6		J. T. Farrer, Jr.
Black Rock	Tooele		2	69.4		91	7	37	18	53	2.22		1.00	0.0	4	12	19	0		Owen Sheridan.
Black Rock	San Pete									0.20		0.12	0.0	3					R. H. Spencer.	
Black Rock	Juab	5,010	15	71.2	+0.9	93	*8	49	*16	39	0.47	-0.26	0.17	0.0	4	19	8	4	SW.	William Brown.
Black Rock	San Pete	5,575	11	69.1	-1.2	99	9	45	16	47	0.20	-0.27	0.10	0.0	2	8	20	1		W. M. Harmon.
Black Rock	Utah	4,050	3	75.0		96	*20	50	*16	41	0.09		0.08	0.0	2	17	13	1	S.	D. C. Walkey.
Black Rock	San Pete	5,559	13																Web Greene.	
Black Rock	Juab		1							0.49		0.20	0.0	7	16	11	4		H. D. Allred.	
Black Rock	Millard			76.0		99	21	51	17	41	0.63		0.39	0.0	3	19	11	1	SW.	J. Finlinson.
Black Rock	Utah	4,637								0.20		0.05	0.0		12	19	0	SW.	W. C. Wightman, Jr.	
Black Rock	Utah	1,532	13																Caleb Tanner.	
Black Rock	Sevier	5,323	15																J. M. Lauritzen.	
Black Rock	Millard	5,260	10	68.2	-1.1	92	*7	36	19	53	1.01	+0.18	0.36	0.0	8	10	0	20	SW.	Thomas Mammott.
Black Rock	Utah	7,474	13																Agent Rio Grande R. R.	
Black Rock	Utah	5,475	13	67.6	-1.9	105	5	30	*14	72	0.24	-0.78	0.12	0.0	3	26	1	4		J. H. Mitchell.
Black Rock	Juab			72.0		99	7	42	1	53	0.75		0.75	0.0	1	19	8	4		E. E. Edwards.
Black Rock	Utah			67.6		94	*3	35	26	57	0.39		0.18	0.0	5	12	10	9	S.	W. A. Knight.
Black Rock	Carbon	5,540	6	70.0	+1.4	98	*7	39	15	52	1.90	+1.10	1.64	0.0	2					E. E. Branch.
Averages				71.2	-0.6					0.70	-0.22			0.0	4	16	10	5	S & SW	
SOUTHERN.																				
Beaver	San Juan	4,800	5	77.0	-0.4	101	8	49	*18	50	0.07	-0.61	0.07	0.0	1	25	5	1	W.	H. R. Antes.
Beaver	Beaver										0.95		0.45	0.0	3					A. B. Anderson.
Beaver	Garfield		4	64.2	+3.8	91	7	35	*18	56	0.75	-0.11	0.17	0.0	7	14	1	12		H. J. McCullough.
Beaver	Garfield	5,700	5																	W. G. Bleak.
Beaver	Washington		1	80.4		108	7	53	*16	45		-0.17	0.40	0.0	8	13	12	6	SW.	Joseph T. Atkin.
Beaver	Beaver	7,318	11	73.5	+1.8	96	*7	53	10	37	1.04	-0.17	0.40	0.0	8	13	12	6	SW.	S. N. Slaughter.
Beaver	Wayne	4,000	10	75.4	+0.8	103	*18	47	16	52	1.15	+0.47	0.32	0.0	8	18	11	2		J. C. White.
Beaver	San Juan			76.4		106	18	49	*11	55	0.15		0.15	0.0	1	25	5	1	S.	Joseph D. Lyman.
Beaver	Garfield	3,000	6	84.2	+1.3	107	8	62	*11	43	0.19	-0.29	0.10	0.0	2	18	13	0		F. W. Gibbons.
Beaver	Kane	4,925	5	68.6		97	*7	42	*16	50	1.10		0.60	0.0	3	19	0	12		E. M. Ford.
Beaver	San Juan	7,000	5	67.4	-0.2	86	*7	46	11	34	T.	-1.48	T.	0.0	0	18	10	0		Mrs. G. W. Carpenter.
Beaver	Wayne	7,010	13	64.4	+1.1	90	*8	38	*17	49	0.67	-0.61	0.20	0.0	6	11	0	16		Michael Hansen.
Beaver	Piute	6,180	6	65.8	-1.0	92	20	40	13	49	1.05	-0.56	0.34	0.0	9	9	6	16	N-SW.	G. T. Henry.
Beaver	Beaver	5,070	8	77.2	+4.8	97	7	61	1	28	0.65	-0.18	0.25	0.0	5	11	15	5	SW.	R. W. Dotson.
Beaver	Grand	4,000	16	75.5	+0.4	99	*8	50	*15	49	0.15	-0.50	0.07	0.0	4	24	3	4		Henry Crouse.
Beaver	Iron	5,479	5	70.4	-0.2															

At this station the thermometers are read in the morning; the maximum in temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.

* Indicates 100; $\frac{1}{2}$, 50, etc. + 110.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Indicates a trace of precipitation. * Precipitation included in that of following day. † Precipitation incomplete. ‡ Accumulated in 5 days. § Distribution not known.

667,000
UN-
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

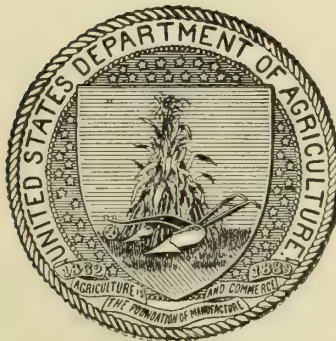
WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF
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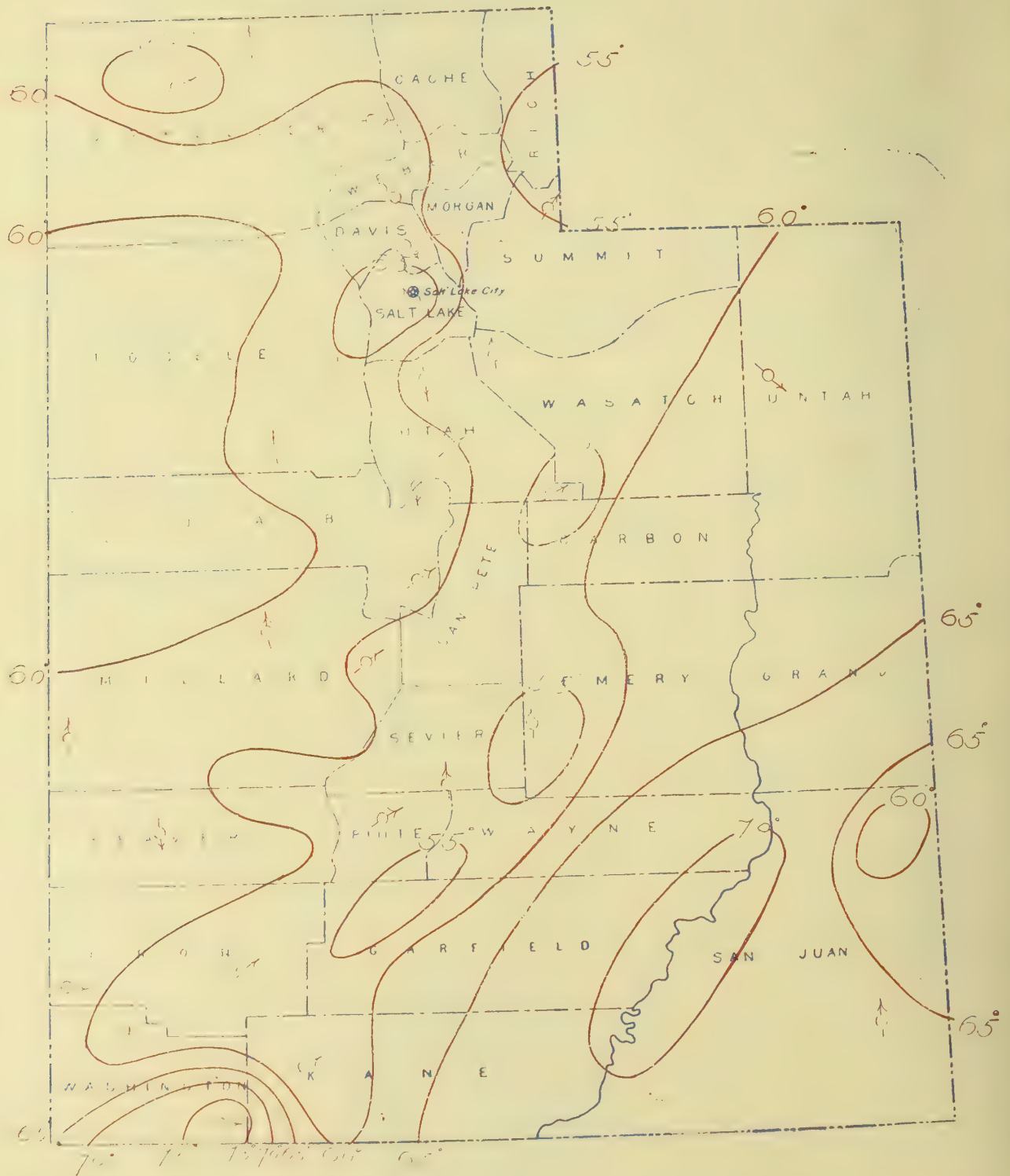
BY

R. J. HYATT,
SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
OCT. 24, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

September, 1905.

No. 11.

WEATHER.

Almost summer maximum temperatures were produced by the ruling storm areas of the month. Two cold periods also occurred, with freezing temperature. However, crops were all too far advanced to receive much injury. Near the normal precipitation had fallen up to the 28th of the month, when the heaviest general precipitation known in the State for many years occurred. In two days of almost incessant downpour reservoirs were filled to overflowing, irrigation systems were flooded, and the mountains were covered with snow. The entire mountain range from north to south received about a foot of snow, this blanket extending across many valleys.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 54 stations, was 60.7° , or 0.4° below the normal. The highest local monthly mean was 75.2° at Rockville; the lowest was 50.8° at Soldier Summit. The highest temperature recorded was 104° at Hite on the 1st and 2nd; the lowest was 12° at Woodruff on the 13th, giving an absolute range for the section of 92° . The greatest daily range for any station was 72° at Thistle on the 14th. The highest temperatures generally occurred from the 1st to 3rd, and 22nd and 23rd, and the lowest on the 18th and 19th, and on the 29th and 30th.

PRECIPITATION.

The average precipitation, determined from the reports of 64 stations, was 2.10 inches, or 1.45 inches above the normal. The excess was quite general over the section, but the middle portion received the greatest excess. The greatest monthly amount was 5.92 inches at Ft. Duchesne; the least, 0.40 inch at Ibapah. The greatest amount in any 24 consecutive hours was 4.06 inches at Ft. Duchesne on the 29th.

WIND AND WEATHER.

The prevailing direction of the wind for the section was south. The total number of miles recorded at Salt Lake City was 4,406; at Modena, 7,604; at Grand Junction, Colo., 3,397; and at Pocatello, Idaho, 6,381. The maximum velocity at Salt Lake City was 38 miles per hour from the west on the 5th; at Modena, 43 miles from the southwest on the 27th; at Grand Junction, Colo., 26 miles from the southwest on the 17th; and at Pocatello, Idaho, 28 miles from the southwest on the 27th.

The average number of clear days for the section during the

month was 18; partly cloudy days, 6; cloudy days, 6. Determined from the records of automatic sunshine recorders, Salt Lake City had 65 per cent; Modena 73 per cent; Grand Junction, Colo., 67 per cent; and Pocatello, Idaho, 78 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 39 per cent, the lowest observed reading being 10 per cent on the 16th; at Modena, 41 per cent, the lowest observed reading being 7 per cent on the 21st; at Grand Junction, Colo., 44 per cent, the lowest observed reading being 11 per cent on the 16th; and at Pocatello, Idaho, 36 per cent, the lowest observed reading being 2 per cent on the 22nd.

There was an average of 5 days with .01 inch or more of precipitation, 6 over the northern, and 5 over the middle and southern portions.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence).

Halo, solar.—Pinto, 9.

Corona, lunar.—Marysville, 11; 12.

Rainbow.—Utah Lake Pumping Station, 3.

Haze, light.—Randolph, 5; Utah Lake Pumping Station, 1.

Sleet.—Frisco, 29; Levan, 29; Marion, 29; Marysville, 29; Nephi, 29.

Frost, heavy.—Castle Rock, 18; Coyoto, 11, 12; Ft. Duchesne, 30; Marion, 19; Randolph, 9, 10.

Hail.—Black Rock, 4; Clear Creek, 5; Ft. Duchesne, 4; Frisco, 4; Levan, 5; Panguitch, 7; Pinto, 6; Scipio, 4, Sunnyside, 5, 8, 25, 29; Utah Lake Pumping Station, 4, 5.

Frost, light.—Coyoto, 7; Government Creek, 18; Huntsville, 1, 2; Marion, 2; Moab, 19; Morgan, 1; Nephi, 18; Ranch, 11-18, 27; Randolph, 8; Salt Lake City, 19, 30; Snowville, 1; Tooele, 30; Utah Lake Pumping Station, 19; Vernal, 18, 30.

High winds.—Castle Rock, 27; Deseret, 4, 11, 12, 17, 27; Ft. Duchesne, 2, 17; Frisco, 12, 27, 28; Garrison, 2, 11, 13, 27, 28; Giles, 17; Government Creek, 11, 12, 28; Heber, 28; Henefer, 3, 4, 5, 11-15, 27, 28; Huntsville, 28; Marion, 23, 28; Meadowville, 5, 28; Modena, 27; Mount Nebo, 11, 12; Pinto, 27; Randolph, 15, 16; Thistle, 17, 29; Utah Lake Pumping Station, 17, 25, 29.

Frost, killing.—Black Rock, 30; Castle Rock, 1, 10; Clear Creek, 4; Coyoto, 13; Deseret, 19, 30; Emery, 28-30; Garrison, 18; Giles, 31; Government Creek, 30; Heber, 14-16, 18-23; Henefer, 1, 14; Huntsville, 14, 15, 19; Levan, 30; Marion, 1, 17-19; Marysville, 15, 19, 20; Mount Nebo, 18, 19, 30; Morgan, 14, 16, 18-20; Panguitch, 9, 29, 30; Pinto, 17-19; Ranch, 28, 29; Scipio, 18, 19; Snowville, 18.

Thunderstorms.—Black Rock, 3, 4, 24; Castle Rock, 4-6; Farmington, 3, 4; Ft. Duchesne, 24; Frisco, 2-4, 5, 24; Giles, 4, 6, 24, 28; Government Creek, 3-7, 24, 25; Heber, 6, 7, 28; Henefer, 3-5, 7, 8, 24; Huntsville, 8, 24, 29; La Sal, 3, 6; Levan, 3-5, 24, 25; Marion, 3-7, 25; Marysville, 3-6, 24, 25; Meadowville, 3, 6, 7; Moab, 3, 4, 6, 28; Modena, 2, 24, 28; Mount Nebo, 25; Morgan, 3, 4, 6, 24, 28; Nephi, 4, 5, 24, 25; Parowan, 3-6; Pinto, 2-4, 6; Plateau, 28; Ranch, 2; Randolph, 4, 7; Salt Lake City 3-7, 24, 28; Scipio, 4, 24; Snowville, 4, 11; Sunnyside, 4, 5, 7, 8, 24, 25, 28; Tropic, 1, 3, 5-7; Utah Lake Pumping Station, 4, 5, 7, 28; Vernal, 28.

FARMING OPERATIONS AND CROP CONDITIONS.

The month's precipitation, coming at favorably long intervals, permitted considerable advancement in fall work among the farmers. Grain was well taken care of generally, though locally some thrashing machines were still busy at the end of the month. Winter grain was being taken from the machines to the fields again for re-sowing in many sections, and the work of fall seeding was generally well advanced. The unusually good condition of the soil caused quite a rush of fall plowing, and a large acreage was turned. The late varieties of fruit, mostly apples and peaches, were being picked and boxed for the markets and for winter storage. Beet digging was becoming general when the heavy rains at the close of the month suspended this work. Potatoes, pumpkins, squashes and other minor crops were being gathered. The last crops of alfalfa were being gathered in scattered localities when the work was stopped and some of the crop damaged by the heavy rains on the 28th and 29th. The range had moisture and warmth throughout the month sufficient to make a splendid growth, and a good supply of winter feed was assured on the range everywhere. Stock generally fared well, and was in good condition.

OBSERVERS' REMARKS.

Alpine.—September was a wet month; grain was coming up well; the surrounding mountains were covered with snow on the 29th.—T. B. Whitby.

Black Rock.—More precipitation than usual fell during September; the mountains to the southeast and southwest were covered with snow low down on the sides during the night of the 29th.—Willard Burbank.

Castle Rock.—The late rains helped the water supply on the ranges, where it had been very scarce.—David Moore.

Cisco.—Roads and bridges were in very bad condition; the water did considerable damage.—S. Bowan.

Deseret.—A very pleasant month, with but little high wind; crops were nearly all harvested; much lucerne was damaged by the rains, which were heavier than average; the ground was in good condition for fall plowing.—S. W. Western.

Emery.—The month was very dry; harvesting progressed under very favorable weather conditions.—H. C. Wickman.

Frisco.—The range was in fine condition.—S. N. Slaughter.

Government Creek.—The most pleasant September for many years; considerable fall farming has already been done. Walter James.

Heber.—Very warm month, excepting three days during the middle and during the last days of the month; precipitation was above the average; heavy snow on the hills the last two days of the month.—John Crook.

Henefer.—Very heavy rain during the latter part of the month; it was greatly needed on the range.—Wm. Brewer.

Huntsville.—The month was very dry until the last week, but with the exception of a few cold days was warm and pleasant; thrashing was nearly over, with a good yield.—Lars Petersen.

Levan.—The storm of the latter part of the month put the ground in splendid condition for seeding.—Wm. Brown.

Marion.—Thrashing commenced early in the month; one foot

of snow on the high mountains on the morning of the 30th.—James Woolstenhulme.

Marysville.—Thrashing was in progress; magpies destroying the late apples; the last snow was over a foot deep in the mountains.—John W. Henry.

Meadowville.—This month has been favorable for farmers; thrashing was completed, and second crop of lucerne was up; fall grain being put in.—J. S. Moffatt.

Mt. Nebo.—The month was dry until the 25th, since which time there have been very heavy rains; these have come too late to benefit crops, but have put the ground in fine condition for fall plowing.—D. C. Walkey.

Nephi.—Late peaches were ripe; third crop of alfalfa was being harvested; snow damaged trees by breaking down a great many.—A. Madsen.

Panguitch.—Frost held off remarkably well; all grain in the path of the hailstorms was badly thrashed out.—John E. Steele.

Payson.—Heavy snow in the mountains.—W. C. Wightman, Jr.

Pinto.—As a rule the month was favorable for farm work; thrashing was in progress until stopped by the rains during the latter part of the month.—John H. Harrison.

Ranch.—A very wet month; both arid and irrigated lands have yielded much better than expected; the snow during the latter part of the month did some damage.—J. W. Seaman.

Sunnyside.—There were two periods of heavy rain, with floods and washouts as a result.—Henry Cullum.

Tooele.—Ground well soaked from the heavy rain on the 29th.—Isaac J. Elkington.

Vernal.—Tender vegetables were nipped and even killed in localities on the nights of the 18th and 30th.—Joab Collier.

LATE REPORT FOR AUGUST.

Deseret: Mean temperature, 71.8°, which is 0.6° above the normal; maximum temperature, 98° on the 6th and 7th; minimum temperature, 41° on the 18th; greatest daily range, 53°. Total precipitation, 1.15 inches, which is 0.73 inch above the normal; the greatest precipitation in any 24 consecutive hours was 0.58 inch on the 25th; number of rainy days, 5; clear days 16; partly cloudy days, 6; cloudy days, 9; direction of the wind south.

GREAT SALT LAKE.

The stage of the water on September 1st was 0.6 of a foot below the zero of the gage; on September 15th the water stood 0.9 below, and on October 1st it was still the same.

Comparative Temperature and Precipitation Data for August During the Past Fifteen Years.

Year	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	60.7	104	28	1.89
1892	64.6	102	20	0.09
1893	58.0	99	12	0.84
1894	57.0	102	13	1.36
1895	60.8	103	9	0.60
1896	61.0	110	16	1.00
1897	62.2	100	25	1.64
1898	61.0	102	18	0.10
1899	65.3	103	22	0.05
1900	57.4	96	10	1.26
1901	59.3	100	11	0.21
1902	60.1	103	10	0.56
1903	58.5	103	16	0.90
1904	61.1	102	20	0.40
1905	60.7	104	12	2.10

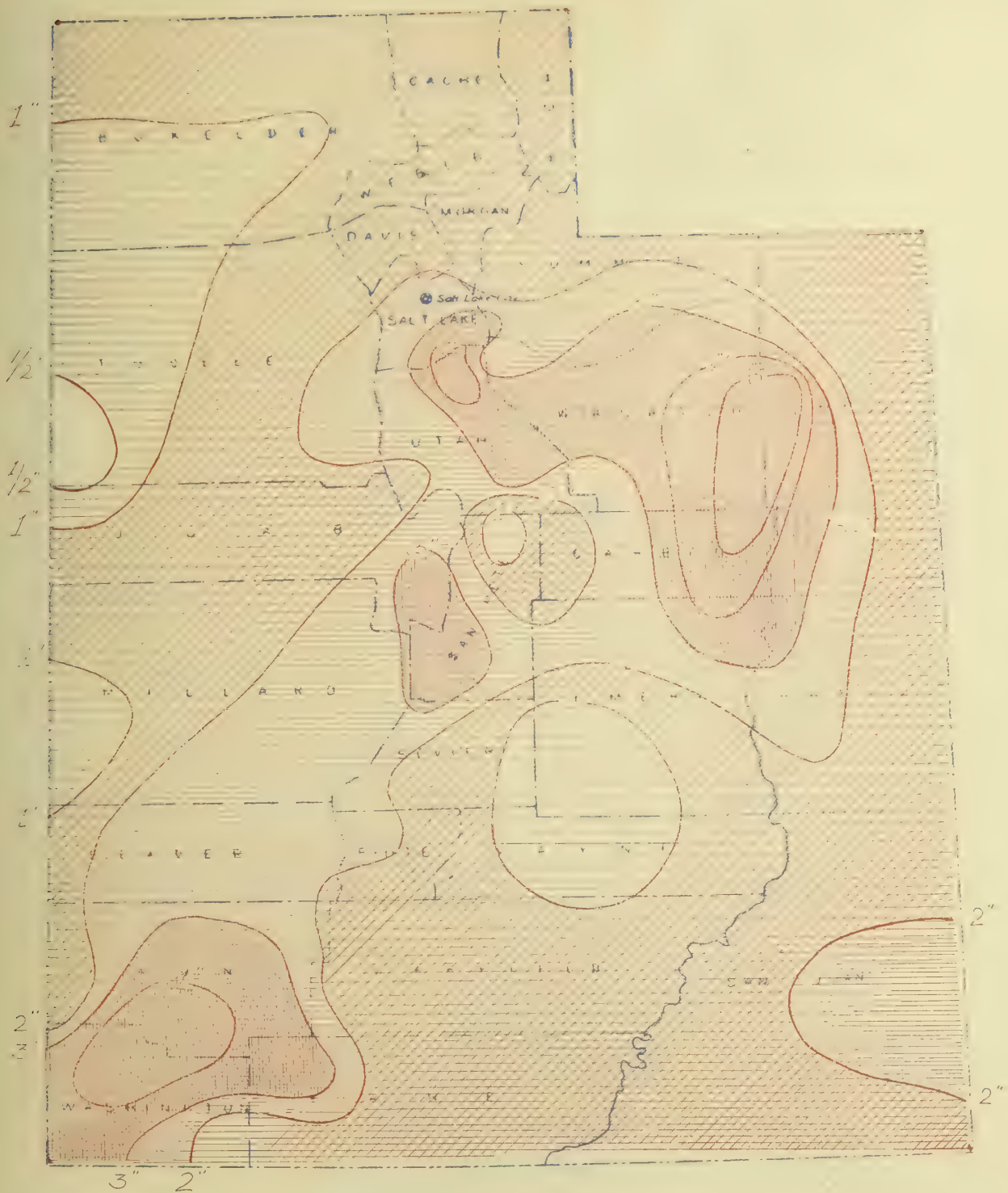
CLIMATOLOGICAL DATA, SEPTEMBER, 1905.

Sections and stations	Counties	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches				Sky.			Prevailing direction of wind.	Observer.		
				Mean	Departure from the normal	Highest	Date.	Lowest	Date.	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Days with 0.1 inch or more	Number clear days			Number partly cloudy days.	Number cloudy days
NORTHERN.																				
Alpine	Utah	1,900	9								4.21	+3.31	1.16	0.0	9					T. B. Whitby
Alpine Rock	Summit										1.50		0.69	T.	8	19	2	6	SW.	David Moore.
Alpine	Box Elder	4,210	35	63.8	-1.6	93	*1	33	18	53	1.09	+0.45	0.64	0.0	3	20	2	5	W.	W. E. Johnson.
Alpine	Alta	6,959	10	53.0	+0.6	85	22	22	12	48	1.48	+0.08	0.01	3.9	2	20	8	2	W.	Frank Tucker.
Alpine	Davis	1,207	5	60.9	+1.2	87	22	31	18	42	1.91	+1.15	1.10	0.0	5	21	4	5	NW.	Charles Boylin.
Alpine	Wasatch	5,000	12	61.5	+0.7	82	1	20	22	51	5.92	+5.01	4.06	0.0	6	23	0	7	NW.	Ferdinand Rohricht.
Alpine	Uintah	5,606	17	57.1	+2.1	90	22	21	10	58	2.12	+1.19	1.00	0.0	9	15	10	5	S.	John Crook.
Alpine	Summit	5,301	6	56.8	+3.6	90	21	20	19	60	1.32	+0.39	0.83	0.0	7	17	6	7	W.	William Brewer.
Alpine	Weber	5,100	10								1.12	+0.45	0.60	0.0	4	19	10	1	W.	Lars Petersen.
Alpine	Box Elder	4,230	27	52.8	-8.7	92	3	29	29		1.03	+1.21	0.85	T.	4	21	7	2	SW.	Agent So. Pacific Co.
Alpine	Cache	4,507	14																W. M. Jardine.	
Alpine	Box Elder			61.4		88	11	33	26	45	0.50		0.61	0.0	2				W. M. Maughames.	
Alpine	Rich	6,200	6	56.4	+3.0	89	10	25	18	47	1.30	+0.59	0.95	0.0	2	18	4	8		J. S. Moffat.
Alpine	Cache	1,818	10								1.83	+0.90	0.85	0.0	7				Fred Yeates.	
Alpine	Morgan	5,080	2	57.7		87	21	21	19	54	1.39		0.58	0.0	7	21	5	4	W.	T. R. G. Welch.
Alpine	Cassia	4,191	12																Thomas Adams.	
Alpine	Weber	4,310	4	53.9		81	*2	33	30	31	1.51		0.84	0.0	5	18	4	6	SE.	Enoch Farr.
Alpine	Weber	4,310	35	60.5	-5.2	85	23	38	30		1.16	+0.49	0.47	0.0	4	20	2	8	W.	W. H. Chevers.
Alpine	Summit	7,800	1	57.3	+3.4	83	14	20	19	41	\$0.20		0.14		3	13	0	6		P. S. McKinna.
Alpine	Bannock	4,483	5	62.3	+1.8	86	22	30	18	44	0.76	+0.10	0.60	0.0	4	18	9	3	E.	Weather Bureau.
Alpine	Rich		1								1.32		0.51		6	19	0	11	SW.	Wm. Rex.
Alpine	Salt Lake		2	67.6		90	12	40	30	33	1.12		1.12	0.0	5				Francis W. Bailey.	
Alpine	Salt Lake City	4,376	31	65.3	+1.0	91	2	37	29	38	2.07	+1.11	1.19	0.0	10	17	6	7	SE.	Section Center.
Alpine	Box Elder	4,300	15	58.1	+0.1	91	2	26	18	56	1.35	+0.84	0.55	0.0	4	12	12	6	S.	Joseph Robbins.
Alpine	Tooele	4,900	9	64.6	+0.6	86	*3	33	30	31	2.19	+1.74	1.82	0.0	6	22	1	4	S.	I. J. Elkington.
Alpine	Uintah		10	61.0	+1.0	81	12	34	30	34	1.81	+0.62	0.99	0.0	6	23	2	5		Joab Collier.
Alpine	Oneida	4,460	7	59.6	+1.7	90	*2	29	19	54	1.60	+1.07	0.38	0.0	8	17	5	8	S.	William Chatterton.
Alpine	Rich	9,500	8	51.1	+0.3	83	19	12	13	64					26	3	1		Thomas Ashton.	
Averages				60.1	-1.3						1.97	+1.23		T.	6	20	5	5	W.	
MIDDLE.																				
Alpine	Millard	4,872	5	59.8	+2.1	88	3	28	30	45	2.57	+2.05	1.25	0.0	7	20	5	5	S.	Willard Burbank.
Alpine	Emery	5,500	0	59.6	-2.2	89	1	25	30	52	2.23	+1.64	0.85	0.0	4	17	13	0		James Jeff.
Alpine	Grand	4,385	13	66.6	-0.3	91	*1	41	30	40	1.03	+0.40	0.90	0.0	2				H. T. Matthews.	
Alpine	Millard	4,541	11	60.7	+0.5	93	2	27	30	56	1.79	+1.23	0.70	0.0	5	17	4	9	S.	S. W. Western.
Alpine	Emery	6,260	5	53.0	-0.9	71	*13	30	*25	35	0.05	+0.08	0.65	0.0	1	14	1	15	S.	H. C. Wickman.
Alpine	Millard	5,100	15	66.1	+0.9	95	*1	31	*18	49	2.81	+1.99	2.12	0.0	6				J. J. Starley.	
Alpine	Millard		2	62.4		91	2	28	19	47	0.85		0.85	0.0	1	22	3	5	S.	E. M. Smith.
Alpine	Tooele	5,277	5	62.3	+1.1	88	2	29	*18	39	1.96	+1.66	1.15	0.0	7	17	7	6	S.	Walter James.
Alpine	Mesa	4,608	14	67.2	0	91	13	41	30	36	1.71	+0.78	0.53	0.0	10	17	5	8	SE.	Weather Bureau.
Alpine	Emery	4,680	8																J. T. Farrer, Jr.	
Alpine	Tooele		2	57.0		87	2	23	18	57	0.40		0.30	1.0	2	15	11	1		Owen Sheridan.
Alpine	San Pete		1								0.95		0.40	0.0	4				R. H. Spencer.	
Alpine	Juab	5,010	15	60.3	-0.1	80	1	28	30	40	3.68	+2.68	1.65	2.5	8	21	4	5	SW.	William Brown.
Alpine	San Pete	5,575	11	58.8	-2.6	89	3	30	30	45	3.09	+2.29	0.95		6	0	15	1		W. M. Harmon.
Alpine	Utah	4,650	4	61.2		92	2	33	18	45	1.70		0.94	0.0	6	15	12	3	N.	D. C. Walkey.
Alpine	San Pete	5,889	13	59.0	-3.0	87	23	30	*29	44	\$1.61		1.18	0.0	3	11	6	1		Web Greene.
Alpine	Juab		1								2.80		1.00	2.0	9	17	6	7		H. D. Alford.
Alpine	Millard			65.0		94	16	29	18	54	2.29		1.51	0.0	5	13	15	2	SW.	J. Finlinson.
Alpine	Utah	4,637	1								2.60		1.66	0.0	3	17	11	2	SW.	W. C. Wightman, Jr.
Alpine	Utah	1,532	13																Caleb Tanner.	
Alpine	Sevier	5,323	15																J. M. Lauritzen.	
Alpine	Millard	5,260	10	59.4	-0.3	89	3	25	18	54	2.88	+2.22	1.09	T.	9	12	8	10	SW.	Thomas Memmott.
Alpine	Utah	7,474	13	50.8	-0.2	83	22	20	*18	54	2.05	+1.44	1.00	1.0	6	14	0	14	SW.	Agent Rio Grande R. R.
Alpine	Utah	5,075	13	59.6	+1.4	100	8	23	12	72	3.18	+2.07	0.90		7	21	0	8		J. H. Mitchell.
Alpine	Juab																		E. E. Edwards.	
Alpine	Utah			58.8		90	*2	29	19	51	2.92		1.04	0.6	7	15	6	9	N.	W. A. Knight.
Alpine	Carbon	5,540	6	60.6	+2.4	93	2	29	*19	46	2.20	+1.43	0.68	0.0	5				E. E. Branch.	
Averages				59.8	-0.4						2.24	+1.79		0.3	5	17	7	6	S.	
SOUTHERN.																				
Alpine	San Juan	4,800	5	68.5	+2.2	99	1	38	30	49	1.95	+1.16	0.60	0.0	5	12	16	2	SE.	H. R. Antes.
Alpine	Beaver		1	60.0		88	14	17	29	53	2.07		0.89	0.0	4				A. B. Anderson.	
Alpine	Garfield		1	54.0		86	1	20	19	57	1.46		0.63		5	17	2	11		H. J. McCullough.
Alpine	Garfield	5,700	5																W. G. Bleak.	
Alpine	Washington		1	70.7		102	1	39	29	53						21	0	9		Joseph T. Atkin.
Alpine	Beaver	7,318	11	63.8	+0.8	90	1	30	30	34	2.32	+1.88	1.07	T.	8	18	3	9	N.	S. N. Slaughter.
Alpine	Wayne	4,000	10	65.8	+1.3	97	*2	32	19	55	0.87	+0.22	0.42	0.0	4				J. C. White.	
Alpine	San Juan			65.8		100	1	32	30	46	2.89		1.35	0.0	4	20	4	6	S.	Joseph D. Lyman.
Alpine	Garfield	3,000	6	73.8	+1.6	104	*1	42	30	42	1.59		0.72	0.0	4	20	6	4		F. W. Gibbons.
Alpine	Kane	4,925	5	59.8		90	1	28	29	47	1.80		1.57	0.0	3	15	0	7		E. M. Ford.
Alpine	San Juan	7,000	5	59.0		82	2	30	30	36	1.48		0.96	0.0	5	17	8	3		Mrs. G. W. Carpenter.
Alpine	Wayne	7,010	13	55.5	+2.0	85	2	25	*20	50	1.05	+0.57	0.35	0.0	6				Michael Hansen.	
Alpine	Piute	6,180	6	58.0		88	1	26	19	56	2.28		1.16	T.	10	14	12	4	SW.	G. T. Henry.
Alpine	Beaver	5,070	8																R. W. Dotson.	
Alpine	Grand	4,300	10	68.0	+2.4	101	1	35	20	52	1.95	+0.90	1.30	0.0	4	10	9	11		Henry Crouse.
Alpine	Iron	5,479	5	60.6	+0.2	89	1	29	30	48	1.26	+0.14	0.82	0.0</						

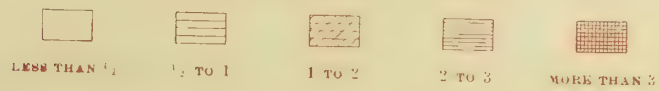
§ At this station thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

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TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, SEPTEMBER, 1905.

Sections and stations.	Day of month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine			.45	.36	.75	T.											.18	.22							.50	.05	1.46			.74		4.		
Alta			.20	.87	.22												.30								.10	.21		.06	.70	.60		3.		
Blacksmith's Fork			T.	.16			.07										.15							.10	.21		.26	.64				1.		
Castle Rock			.10		.15		.01										.05							.04			.15	.69	.31			1.		
Corinne					.30																					.64		.15				1.		
Evanston, Wyo			.09		.10												.02									.06		.07	.61	.53		1.		
Farmington			T.		.35																			T.	.05		.05					1.		
Ft. Duchesne				1.64	.06	.06																		.06	.04		1.40		4.06			5.		
Heber			.30	.26	*	.10	.16										.10								.20		*	1.00				2.		
Henefer			.05	T.	.01	T.	T.										T.							.02	.12		.22	.83	.07			1.		
Huntsville								.07									T.											.60	.15			1.		
Kelton				.18																					.60		*	.85				1.		
Logan																																0.		
Lucin																											.61		.19			0.		
Marion			.45	.12	.20	.08	T.										.05							.03	.10		.12	.70	.23			2.		
Mea lowville					.45												T.											T.	.95			1.		
Millville					.22		.18										.12							.21	.20		T.	.85	.05			1.		
Morgan			T.	T.		.02											.03								.28	.10		.06	.58	.32			1.	
Oakley, Idaho																																1.		
Ogden No. 1																	.14								.25	.17		.84	.11			1.		
Ogden No. 2																	T.								.24	.20		.35	.37			1.		
Park City					.03												.03									.14						0.		
Pocatello, Idaho			T.	T.																				.03	.13		.15	.45				0.		
Randolph				.51		T.	.01									.04	T.											.17	.50	.09		1.		
Saltair Beach			T.	.02													.05							T.	.09			1.12	.14			1.		
Salt Lake City			.03	.03	.04	.15	.01										.07								.01	.10		.28	1.35			2.		
Snowville																	.22									.08	.50		.55			1.		
Strawberry Valley			.10	.11	.01	.23	.09	.22																	.67	.43		1.18				3.		
Tooele			.05	.04	.12												.08							.12		.68	T.	.08		1.82	*	2.		
Vernal (near)			.11	.03																					.32			*	1.32			1.		
Weston, Idaho				.68	.05												.29								.20	.28		.05	.38	.27		1.		
Woodruff																																1.		
MIDDLE.																																		
Black Rock			.12	1.25	.20	.07																			.03			.15	.66			2.		
Castle Dale			T.	.48	.85	.15	T.																		T.			.75				2.		
Cisco				.13		T.																						.90				1.		
Clear Creek			.22		.33	.32																			.25		.15						1.	
Deseret					.12																												0.	
Emery			T.			T.																			.15	.60		.70	.22			0.		
Fillmore			T.	.10	.05																					.18	.20		.16	2.12			2.	
Garrison			T.		T.																								T.	.85			0.	
Government Creek			.05	.23	*	.38	.03																			.07		*	1.15	.05			1.	
Grand Junction, Colo			.15	.25	.17	.28	.01					.02					.02								.16	.12		.53				1.		
Green River																																0.		
Hatch			.30																										.10				0.	
Indianola																			.08	.07							.40	.40				0.		
Levan			.09	.04	.68	.10																			.45	.31		*	1.65	.36		3.		
Manti				.90		.48	T.																	.09	.22			.95	.45			3.		
Mount Nebo			.03			.07																				.23		.23	.94	.20			4.	
Mount Pleasant																								.15			1.18	.28				4.		
Nephi			.09	.03	.24	.18																			.02	.36		.45	1.00	.49			2.	
Oak City					.10	.07																				.50		.11	1.51			2.		
Payson			T.		T.	T.																				.31			1.66	.63			2.	
Provo																																0.		
Richfield																																0.		
Salina																																0.		
Scipio			.13	.66	.03	.25	T.																		T.	.41	.09		.08	1.09	.14		2.	
Soldier Summit				.30		.15	.10																					.20	1.60				2.	
Sunny-side			.80		.77	.40	.25	.15																	1.20	.35		T.	.80				4.	
Thistle				.90	.10	.25																				.23		.78	.80				3.	
Trout Creek																								.10	T.	.23							0.	
Utah Lake Pumping Station			T.	.52	1.04	.10																											2.	
Wellington				.23	.17																					.68	.01	.68		.23	.94			2.
SOUTHERN.																																		
Aneth			.50	.50			.10																				.60		.25			1.		
Beaver																												.05	.18	.89	.95		2.	
Coyote			.06	T.	.51																				.12			.14	.63			1.		
Escalante																																0.		
Frisco			.06	.14	.34	.32	.25																			.14			*	1.07			2.	
Giles				.42		T.																			.05	.10		*	.30				0.	
Grayson				*	.15	.55					T.																							

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

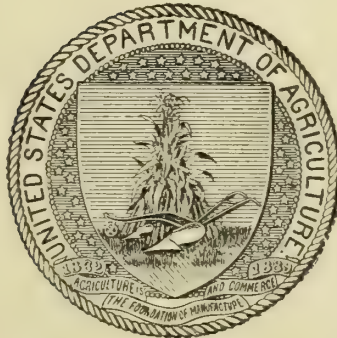
WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

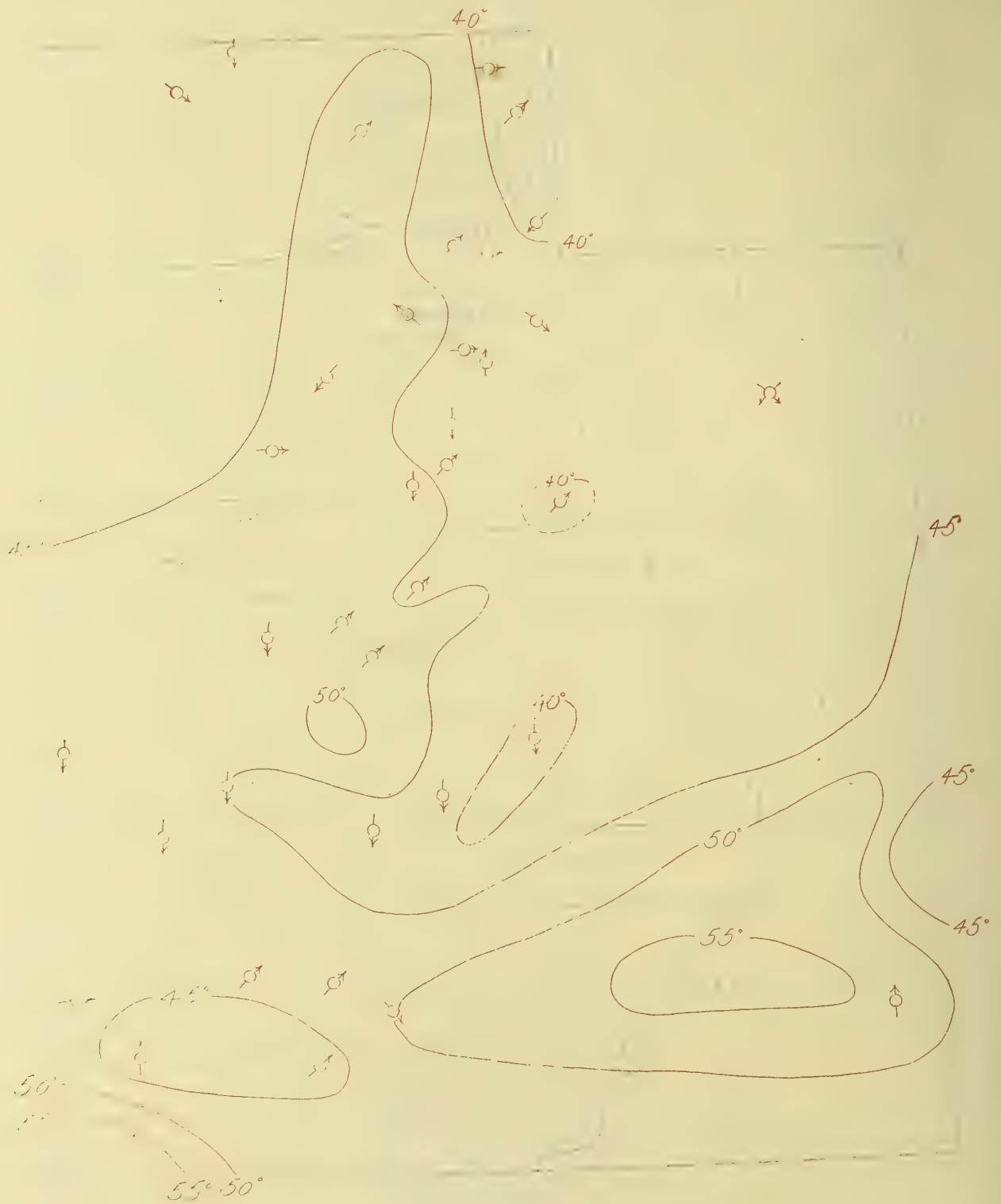
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
Nov. 22, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VII.

October, 1905.

No. 12.

WEATHER.

The month was notable for abnormally cool and dry weather. Storms were infrequent and generally mild, with precipitation, mostly in the form of snow, decidedly below the normal. The days, owing to the bright sunshine, were generally warm, the low mean temperature being due in a great measure to the cool nights.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 53 stations, was 45.4, or 4.1° below the normal. The highest local monthly mean was 58.0 at Hite; the lowest was 37.2 at Soldier Summit. The highest temperature recorded was 99° at Grayson on the 8th and 17th; the lowest was zero at Plateau on the 19th, giving an absolute range for the section of 99°. The greatest daily range for any station was 71° at Grayson on the 17th. The highest temperatures generally occurred from the 4th to the 7th, and the lowest on the 19th and 20th.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 0.36 inch, or 0.63 inch below the normal. A decided deficiency occurred over every portion of the section. The greatest monthly amount was 1.39 inches at Alta, while no precipitation occurred at Garrison, Ibapah, Mt. Pleasant, Soldier Summit and Trout Creek. The greatest amount in any 24 consecutive hours was 1.00 inch at Modena on the 22nd and 23rd.

WIND AND WEATHER.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 10,992; at Modena, 7,138; at Grand Junction, Colo., 2,865; and at Pocatello, Idaho, 6,272. The maximum velocity at Salt Lake City was 44 miles per hour from the north on the 8th; at Modena, 44 miles from the north on the 8th; at Grand Junction, Colo.,

23 miles from the west on the 18th; and at Pocatello, Idaho, 16 miles from the southwest on the 7th.

The average number of clear days for the section during the month was 24; partly cloudy days, 4; cloudy days, 3. Determined from the records of automatic sunshine recorders, Salt Lake City had 82 per cent; Modena 94 per cent; Grand Junction, Colo., 83 per cent; and Pocatello, Idaho, 79 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 46 per cent, the lowest observed reading being 21 per cent on the 4th; at Modena, 44 per cent, the lowest observed reading being 14 per cent on the 13th; at Grand Junction, Colo., 48 per cent, the lowest observed reading being 19 per cent on the 20th; and at Pocatello, Idaho, 51 per cent, the lowest observed reading being 17 per cent on the 4th.

There was an average of 2 days with .01 inch or more of precipitation, 2 over the northern, and 1 over the middle and southern portions.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence).

Parhelion.—Marion, 25.

Solar halo.—Marysvale, 29.

Thunderstorms.—Modena, 22; Pinto, 22.

Fog.—Levan, 24; Marion, 27, 31; Sunnyside, 23; Vernal, 24.

Hail.—La Sal, 16; Marion, 18, 29; Moab, 16; Ogden, 18; Sunnyside, 23; Tropic, 21.

Sleet.—Castle Rock, 8, 30; Henefer, 8, 9, 13, 18; Huntsville, 30; Kanab, 22; Levan, 30; Nephi, 30; Payson, 7, 30; Salt Lake City, 8.

High winds.—Black Rock, 7; Emery, 15; Ft. Duchesne, 8, 18; Frisco, 5, 7, 12, 13, 17; Giles, 18; Government Creek, 17; Garrison, 5, 8, 14, 18; Henefer, 7, 25, 26; Huntsville, 7; La Sal, 8, 18, Moab, 18; Modena, 8; Payson, 7; St. George, 31; Scipio, 8, 18; Salt Lake City, 8; Thistle, 7, 18.

CROP CONDITIONS.

The prevailing fair weather during the month favored the advancement of farming operations. The work of plowing and seeding made rapid headway, and toward the close of the month was nearing completion, with early-sown wheat coming up in good condition. In some portions of the section not so well favored with moisture, the work of plowing was somewhat impeded. Thrashing was about completed, with yields very good. Beet digging was nearly completed, and the crop was about average. The cold spell about the middle of the month injured potatoes and apples. The crop of lucerne seed was very short. Ranges, though dry in localities, afforded ample sustenance to stock, which was generally in good condition. Cattle and sheep were being driven to the winter ranges.

PENALTY FOR COUNTERFEITING FORECASTS.

Any person who shall knowingly issue or publish any counterfeit weather forecasts or warnings of weather conditions, falsely representing such forecasts or warnings to have been issued or published by the Weather Bureau, or other branch of the Government service, or shall molest or interfere with any weather or storm flag or weather map or bulletin displayed or issued by the United States Weather Bureau, shall be deemed guilty of a misdemeanor, and, on conviction thereof, for each offense, be fined in a sum not exceeding five hundred dollars, or be imprisoned not to exceed ninety days, or be both fined and imprisoned, in the discretion of the court.—[See Act of Congress approved Mar. 3, 1905.]

OBSERVERS' REMARKS.

Alpine.—October was a dry, cool month; very hard freezing; potatoes about all up; many of them frozen, leaving small crop.—T. B. Whitby.

Black Rock.—The month was, as a rule, cold—more so than the average; alfalfa (second crop) was much later in maturing than usual.—Willard Burbank.

Castle Rock.—October was a very cold month.—David Moore.

Emery.—The month was very dry.—Hans C. Wickman.

Government Creek.—October was a dry, cold month.—Walter James.

Heber.—The past October was a very dry month; precipitation was below the average; during the middle of the month the mornings were very cold; the latter part of the month was warmer; the ground was too dry for fall plowing.—John Crook.

Henefer.—October was a very frosty month; colder than usual.—William Brewer.

Huntsville.—The October just closed was a dry and very cold month.—Lars Peterson.

Kanab.—The first killing frost occurred on October 10th.—E. M. Ford.

Levan.—October was a very cold month, with scarcely any precipitation; however, the weather was excellent for plowing and planting.—Wm. Brown.

Marion.—Very cold on the night of October 18-19th; potatoes were a good crop, but suffered some loss through frost after they were matured; many apples were lost by frost.—James Woolstenhulme.

Marysville.—October was remarkably clear and cold; fall plowing was under good progress, and cattle were looking well.—John W. Henry.

Meadowville.—October was a very cold month; feed on the range was all dried up; fall plowing was nearly all done.—J. S. Moffat.

Morgan.—This was the coldest October that I have known,

after a residence of 45 years; great quantities of potatoes were frozen in the ground.—T. R. G. Welch.

Mt. Nebo.—The weather during October was pleasant, with some cold nights; there were no storms until the 30th, and then only a light rain.—D. C. Walkey.

St. George.—There was snow on Pine Valley mountains north of St. George on October 23rd; the sowing of fall wheat was about finished.—James G. Bleak.

Sunnyside.—October was a month of remarkably raw, inclement weather.—Henry Cullum.

LATE REPORTS FOR SEPTEMBER.

Trout Creek: Mean temperature, 62.2°; highest temperature, 93° on the 2nd; lowest, 26° on the 18th; greatest daily range, 50. Total precipitation, 1.67 inches; greatest in any 24 consecutive hours, 1.67 inches on the 29th; days with .01 inch or more precipitation, 1; number of clear days, 9; partly cloudy days, 12; cloudy days, 9.

Logan: Mean temperature, 64.4°; departure from the normal, +3.4°; highest temperature, 89° on the 2nd, 9th and 22nd; lowest, 34° on the 29th; greatest daily range, 43°. Total precipitation, 2.07 inches; departure from the normal, +1.07 inches; greatest amount in any 24 consecutive hours, .90 inch on the 28th; number of days with .01 inch or more precipitation, 7.

GREAT SALT LAKE.

A gradual fall in the stage of the water at the Lake occurred during October, the reading on October 1st being 0.9, October 15th, 1.0 foot, and November 1st, 1.1 feet below the zero of the gage.

Comparative Temperature and Precipitation Data for October During the Past Fifteen Years.

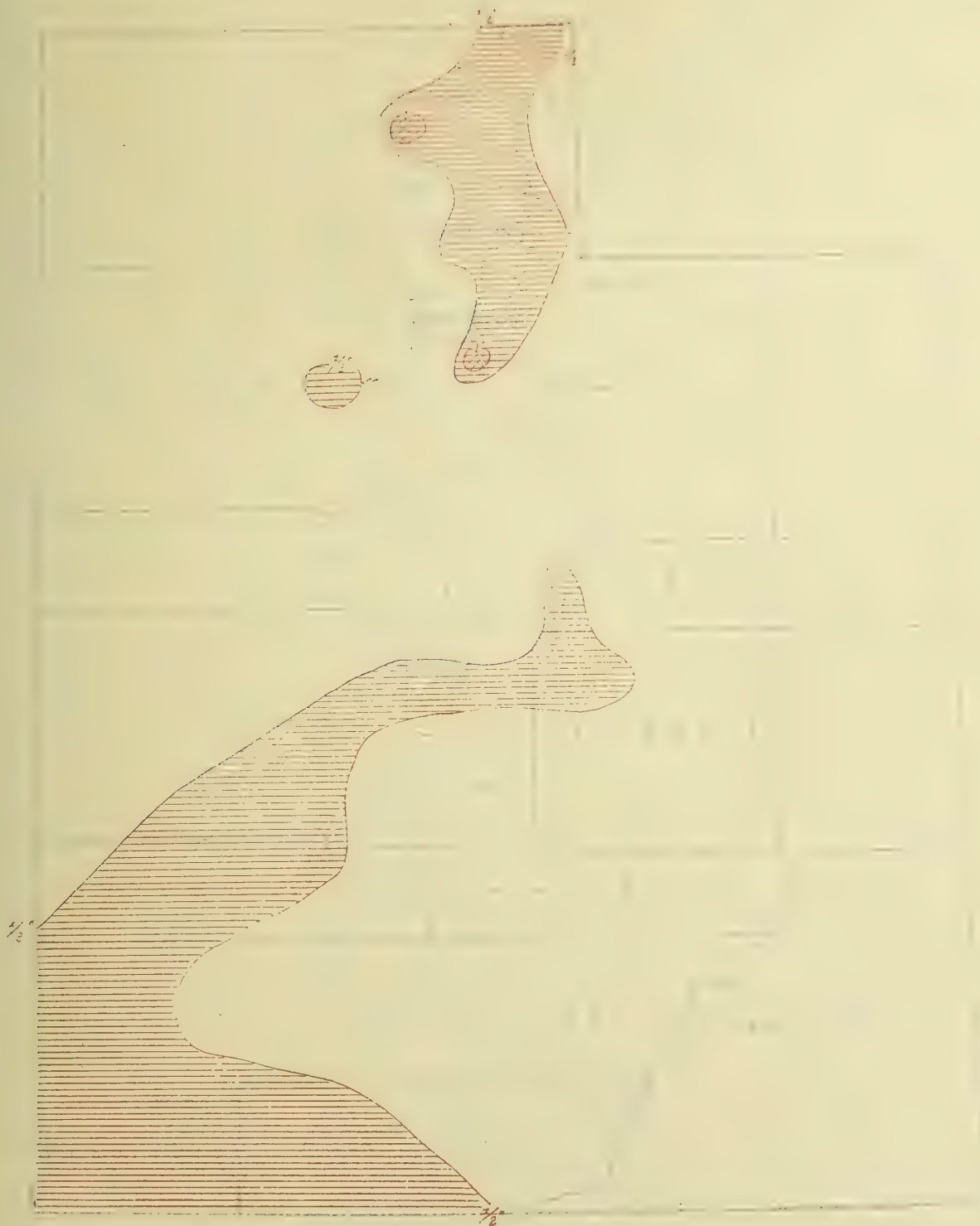
Year.	Mean temperature	Maximum temperature	Minimum temperature.	Average precipitation
1891	49.7	90	12	0.15
1892	48.3	92	7	1.08
1893	46.9	92	5	0.29
1894	49.8	94	9	0.47
1895	49.2	95	10	0.56
1896	51.0	94	13	1.61
1897	47.8	86	7	2.18
1898	47.0	90	3	0.67
1899	45.6	96	9	1.50
1900	48.9	95	— 1	0.87
1901	51.7	93	5	1.04
1902	50.0	91	8	0.28
1903	50.3	97	6	0.89
1904	48.7	97	7	0.92
1905	45.4	99	0	0.36

CLIMATOLOGICAL DATA, OCTOBER, 1905.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit					Precipitation, in inches					Sky					Prevailing direction of wind	Observer
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall, in inches	Days with at least one inch or more	Number of days	Number partly cloudy days	Number cloudy days		
NORTHERN.																				
Castle Rock	Utah	1,000	9	...	...	...	...	...	...	...	0.15	1.21	0.15	0.1	1	29	5	6	ne	T. B. Whitby
Summit	Utah	...	...	...	...	...	...	...	...	...	0.85	...	...	...	...	...	...	...	...	David Moore
Box Elder	Utah	4,210	35	48.6	0.0	82	18	18	47	0.42	0.74	0.22	0.0	1	19	3	9	sw.	W. E. Johnson	
Alta	Utah	9,959	19	37.6	1.3	73	31	37	63.0	0.32	0.14	0.03	0.0	1	2	1	5	sw.	Frank Tucker	
Davis	Utah	4,207	5	18.0	0.2	77	28	31	39	0.09	1.44	0.03	0.0	3	29	4	1	nw.	Charles Boylin	
Alta	Utah	8,000	17	11.2	2.0	50	16	10	31	0.28	0.27	0.20	0.0	2	18	1	9	ne	Ferdinand Rehrich	
Wasatch	Utah	5,000	12	42.2	2.9	72	10	10	57	0.31	1.01	0.28	0.0	2	26	7	2	sw.	John Crook	
Summit	Utah	8,301	9	13.2	4.1	82	5	19	53	0.80	0.30	0.38	0.0	3	23	2	4	sw.	William Brower	
Weber	Utah	5,100	10	...	...	...	...	...	...	...	0.15	1.25	0.0	0.0	0	29	2	2	nw.	Lars Peterson
Box Elder	Utah	1,230	17	11.2	3.5	80	7	12	31	...	T.	0.18	0.0	0	0	0	5	nw.	Agent So. Pacific Co.	
Cache	Utah	4,507	14	15.8	4.0	80	6	10	18	31	0.37	1.80	0.25	0.0	1	26	5	...	W. M. Jardine	
Box Elder	Utah	...	...	13.4	...	86	10	12	7	43	T.	...	T.	...	...	...	...	...	...	W. M. Maughams
Rich	Utah	6,206	6	38.5	-5.5	80	7	9	31	15	0.75	0.42	0.30	7.0	3	18	7	6	w.	J. S. Moffat
Cache	Utah	4,818	10	...	...	...	...	...	...	...	0.71	0.23	0.24	0.0	0	...	...	...	...	Fred Yates
Morgan	Utah	5,800	2	12.1	...	79	6	4	19	5	0.18	...	0.35	4.8	3	22	1	5	sw.	T. R. G. Welch
Cassidy	Utah	4,191	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Thomas Adams
Weber	Utah	4,310	4	45.8	...	79	7	22	19	38	0.29	0.29	0.0	1	23	1	5	nw.	Enoch Farr	
Weber	Utah	4,310	35	44.6	7.2	76	4	28	31	21	0.23	1.07	0.23	0.5	1	28	1	2	w.	W. H. Chevers
Summit	Utah	7,800	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	P. S. McKimmins
Bannock	Utah	4,483	5	14.6	3.4	80	4	17	31	30	0.23	0.59	0.23	2.3	2	16	12	3	e.	Weather Bureau
Rich	Utah	...	...	...	...	...	...	...	...	...	0.17	...	0.21	6.8	4	18	1	6	sw.	Wm. Rex
Salt Lake	Utah	...	...	18.3	...	82	7	21	20	28	0.25	...	0.15	0.0	2	...	...	...	...	Francis W. Bailey
Salt Lake	Utah	4,306	31	8.3	-4.0	81	25	19	30	0.41	1.30	0.14	0.5	4	19	10	2	se.	Section Center	
Box Elder	Utah	4,300	15	41.0	-7.1	70	6	7	19	18	T.	1.11	T.	6	20	10	1	1	n.	Joseph Robbins
Tooele	Utah	4,900	0	17.0	-3.5	78	6	25	19	32	0.55	0.80	0.31	0.0	3	23	6	2	ne.	I. J. Elkington
Utah	Utah	...	10	41.3	-7.1	73	6	16	18	33	0.15	0.16	0.15	1.2	1	29	2	3	...	Joab Collier
Onedra	Utah	4,400	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	William Chatterton
Rich	Utah	6,300	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Thomas Ashton
Averages																				
				44.0	-5.0	...	...	...	...	...	0.13	0.86	...	3.2	2	20	5	5	nw.	
MIDDLE.																				
Millard	Utah	4,872	5	14.8	-3.8	79	6	13	19	40	0.88	+0.13	0.88	0.0	2	18	10	5	n.	Willard Burbank
Emery	Utah	5,506	6	11.3	7.0	76	7	1	19	8	0.80	+0.34	0.15	0.0	2	16	12	2	...	James Jell
Grand	Utah	4,385	13	15.0	-7.8	65	3	10	31	39	0.01	0.70	0.01	0.0	1	...	...	...	...	H. T. Matthews
Millard	Utah	4,511	11	44.9	-4.6	82	10	10	31	61	T.	-0.49	T.	0.0	0	28	1	2	n.	S. W. Western
Emery	Utah	6,260	5	38.6	-7.0	68	5	13	30	47	T.	-0.44	T.	0.0	0	20	0	0	n.	H. C. Wickman
Millard	Utah	5,100	15	10.9	-1.5	88	5	19	20	49	0.51	-0.31	0.51	0.0	1	...	...	...	...	J. J. Starley
Millard	Utah	...	2	45.0	...	85	6	12	19	44	0.00	...	0.00	0.0	0	25	1	2	n.	E. M. Smith
Tooele	Utah	5,277	5	14.8	-5.8	83	7	18	19	33	1.00	-0.46	0.10	T.	1	27	3	1	w.	Walter James
Mesa	Utah	4,618	14	49.1	-3.7	79	7	22	21	38	0.27	-0.80	0.17	0.0	1	21	5	2	nw.	Weather Bureau
Emery	Utah	4,686	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. T. Farrer, Jr.
Tooele	Utah	...	2	40.0	...	81	5	4	19	58	0.00	...	0.00	0.0	0	24	7	0	...	Owen Sheridan
San Pete	Utah	...	1	...	...	...	...	...	...	...	0.12	...	0.12	0.0	1	...	...	...	...	R. H. Spencer
Juab	Utah	5,070	15	44.2	-3.3	77	7	15	19	40	0.12	1.15	0.06	T.	2	26	3	2	sw.	William Brown
San Pete	Utah	5,575	11	44.4	-5.5	77	5	11	19	49	0.54	-0.30	0.46	0.0	2	19	9	3	n.	W. M. Harmon
Utah	Utah	4,950	4	45.9	...	80	15	18	19	43	0.15	...	0.15	0.0	1	15	5	1	n.	D. C. Walkey
San Pete	Utah	5,859	13	45.0	-5.4	80	7	14	17	44	0.00	0.92	0.00	0.0	0	27	4	0	...	Web Greene
Juab	Utah	...	1	...	...	...	...	...	...	...	0.05	...	0.05	0.0	1	25	2	4	...	H. D. Alfred
Millard	Utah	...	...	39.4	...	81	5	16	19	46	0.15	...	0.15	0.0	1	16	13	2	sw.	J. Finlinson
Utah	Utah	4,937	1	...	...	...	...	...	...	...	0.10	...	0.10	0.0	1	25	2	1	sw.	W. C. Wightman, Jr.
Utah	Utah	1,532	13	43.6	-5.3	66	15	19	19	39	0.13	-0.55	0.13	0.0	1	7	9	3	n.	Caleb Tanner
Sevier	Utah	5,343	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. M. Lauritzen
Millard	Utah	5,200	10	45.4	-2.2	83	7	7	19	53	0.53	-0.78	0.51	0.0	2	25	1	5	sw.	Thomas Emmott
Utah	Utah	7,474	13	37.2	-3.8	71	6	2	19	55	0.60	-0.73	0.00	0.0	0	24	6	5	sw.	Agent Rio Grande R. R.
Utah	Utah	5,175	13	43.8	-3.8	86	1	2	19	63	0.35	-0.18	0.25	T.	2	24	6	1	...	J. H. Mitchell
Juab	Utah	...	...	45.4	...	87	6	11	19	51	0.00	...	0.00	0.0	0	22	8	1	...	E. E. Edwards
Utah	Utah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. A. Knight
Carbon	Utah	5,540	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. E. Branch
Averages																				
				44.2	-4.3	...	...	...	...	...	0.25	0.01	...	T.	1	23	5	3	n.	
SOUTHERN.																				
San Juan	Utah	4,800	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	H. R. Antes
Beaver	Utah	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	A. B. Anderson
Garfield	Utah	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	H. J. McCullough
Garfield	Utah	5,700	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. G. Bleak
Washington	Utah	...	1	56.3	...	89	6	26	19	46	...	...	...	...	...	28	0	3	...	Joseph T. Atkin
Beaver	Utah	7,318	11	38.8	-1.2	77	6	23	19	40	0.89	+0.20	0.89	0.0	1	29	1	1	n.	S. N. Slaughter
Wayne	Utah	4,000	10	47.8	-3.1	85	6	11	20	53	0.12	-0.10	0.42	0.0	1	25	5	1	...	J. C. White
San Juan	Utah	...	...	51.2	...	99	8	23	10	71	0.02	...	0.02	0.0	1	25	2	0	s.	Joseph D. Lyman
Garfield	Utah	3,600	0	58.0	-2.7	89	6	30	21	49	0.15	...	0.15	0.0	1	20	0	2	...	F. W. Gibbons
Kane	Utah	4,925	5	46.8	...	76	5	18	18	45	0.30	...	0.90	0.0	1	22	6	4	...	E. M. Ford
San Juan	Utah	7,600	5	43.6	...	72	5	14	19	37	0.10	...	0.16	0.0	1	20	5	0	...	Mrs. G. W. Carpenter
Wayne	Utah	7,600	13	39.6	2.0	72	6	5	19	47	0.10	-0.35	0.10	0.0	...	...	...	...	...	Michael Hansen
Piute	Utah	6,180	6	44.8	-4.4	84	5	7	19	60	0.46	-0.27	0.44	0.0	2	23	6	2	n.	G. T. Henry
Beaver	Utah	5,070	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. W. Dotson
Grand	Utah	4,000	10	51.1	-2.3	86	7	20	20	46										

At this station thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs. Temperatures below zero in boldface.

TOTAL PRECIPITATION FOR THE MONTH.



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

661.00
8N7

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

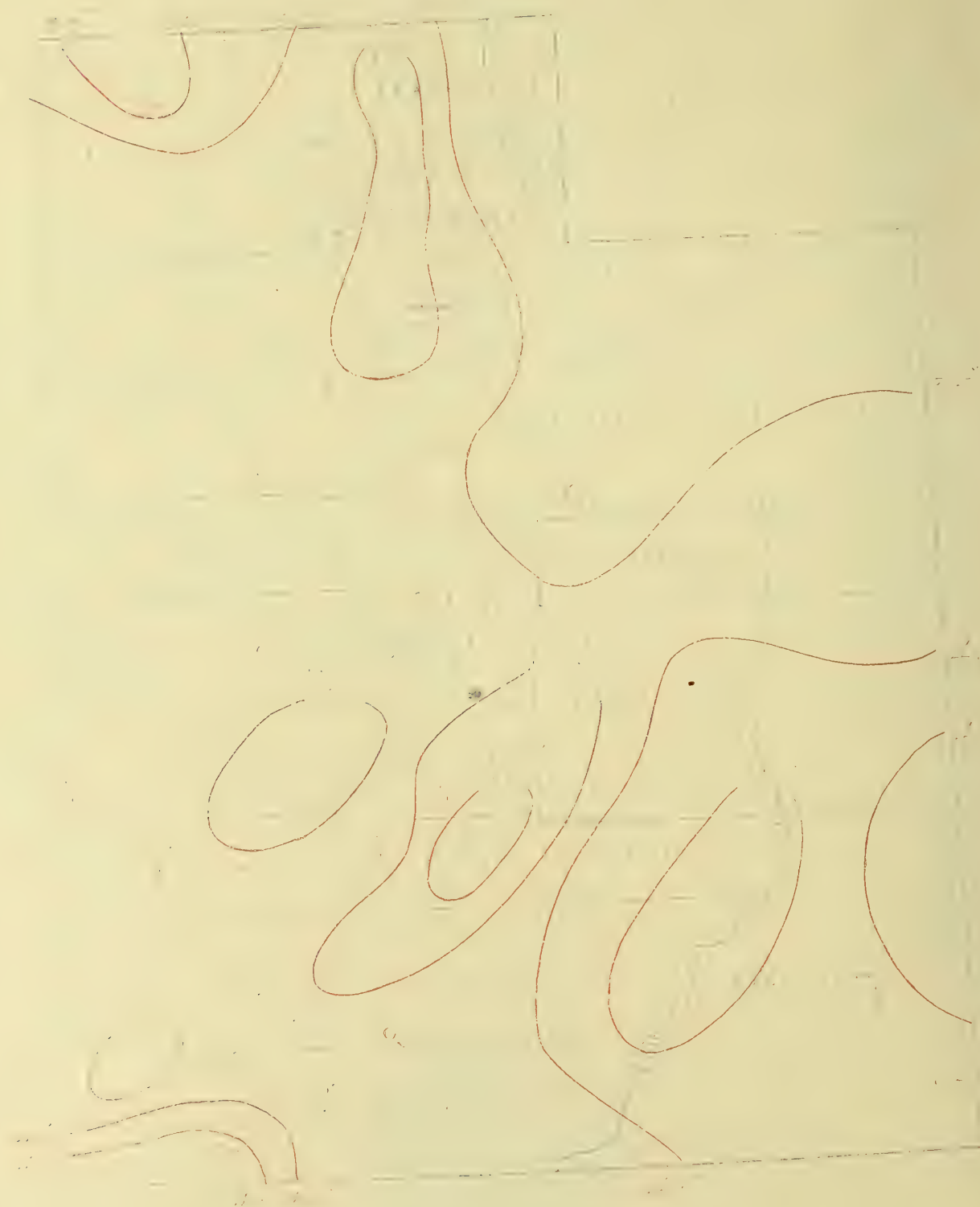
PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU.

BY
R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
DEC. 22, 1905.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VIII.

November, 1905.

No. 1.

WEATHER.

Generally fair weather prevailed until near the close of the month, when a severe storm area passed over the section, producing general and heavy precipitation that began as rain but gradually changed to snow under the influence of the steadily falling temperature. A still more decided fall in temperature occurred as the storm center passed away, and the month ended cold and clear.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 58 stations, was 37.9° , or 0.3° below the normal. The highest local monthly mean was 49.0° at Rockville; the lowest was 27.8° at Kelton. The highest temperature recorded was 79° at Green River on the 26th; the lowest was -11° at Henefer on the 29th, giving an absolute range for the section of 90° . The greatest daily range for any station was 55° at Deseret and Thistle on the 15th, and at Coyoto on the 13th. The highest temperatures generally occurred on the 2nd, 3rd, 8th, 12th and 13th, and the lowest from the 28th to 30th.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 1.53 inches, or 0.43 inch above the normal. A slight deficiency occurred over the northern portion, and an excess over the middle and southern portions. The greatest monthly amount was 4.97 inches at Tropic, and the least 0.10 inch at Lucin. The greatest amount in any 24 consecutive hours was 2.00 inches at Hite on the 21st.

WIND AND WEATHER.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 3,862; at Modena, 5,900; at Grand Junction, Colo., 2,932; and at Pocatello, Idaho, 5,479. The maximum velocity at Salt Lake

City was 36 miles per hour from the south on the 27th; at Modena, 48 miles from the west on the 27th; at Grand Junction, Colo., 32 miles from the southwest on the 27th; and at Pocatello, Idaho, 36 miles from the southwest on the 28th.

The average number of clear days for the section during the month was 16; partly cloudy days, 5; cloudy days, 9. Determined from the records of automatic sunshine recorders, Salt Lake City had 70 per cent; Modena 66 per cent; Grand Junction, Colo., 66 per cent; and Pocatello, Idaho, 75 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 57 per cent, the lowest observed reading being 29 per cent on the 19th; at Modena, 69 per cent, the lowest observed reading being 33 per cent on the 2nd; at Grand Junction, Colo., 61 per cent, the lowest observed reading being 32 per cent on the 20th; and at Pocatello, Idaho, 61 per cent, the lowest observed reading being 25 per cent on the 3rd.

There was an average of 5 days with .01 inch or more of precipitation, 4 over the northern and middle portions, and 6 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence.)

Haze, light.—Salt Lake City, 1-15, 17-19, 24.

Haze, dense.—Marysvale, 8.

Earthquake.—Salt Lake City, 11; Snowville, 11.

Corona, lunar.—Government Creek, 1.

Halo, lunar.—Henefer, 3; Tropic, 27.

Fog, light.—Salt Lake City, 4, 5, 27.

Fog, dense.—Aneth, 18; Emery, 25-28; Giles, 7; Grayson, 19; Salt Lake City, 17; Sunnyside, 22; Vernal, 2-4, 8, 27.

Thunderstorms.—Aneth, 22; Giles, 4, 5; La Sal, 28; Salt Lake City, 27.

Hail.—Aneth, 22; Giles, 30; Government Creek, 27; Levan, 27; Marysvale, 22, 30; Modena, 27; Nephi, 27.

Sleet.—Castle Rock, 27; Cedar City, 5, 20; Giles, 5; Grayson, 17; Government Creek, 20, 21, 27; Heber, 20, 27; Levan, 20, 27; Marion, 18, 21; Marysvale, 21, 22; Mt. Nebo, 27; Nephi, 27; Payson, 21, 22; Sunnyside, 5, 22; Utah Lake Pumping Station, 21.

High winds.—Alta, 19, 26, 27; Aneth, 20, 21, 27; Castle Rock, 8, 25; Cedar City, 27; Deseret, 4, 5, 23, 27; Farmington, 5, 8; Frisco, 19, 20, 26, 27; Garrison, 21, 26, 27, 29; Government Creek, 20, 27; Grayson, 27; Henefer, 5, 8, 14, 20; Huntsville, 5; Kelton, 29; La Sal, 21; Levan, 20, 27; Marion, 20, 29; Marysvale, 27; Moab, 20, 21; Morgan, 28; Mt. Nebo, 26; Nephi, 27; Ogden, 8, 9, 22, 27; Payson, 27; Provo, 27; Scipio, 27; Soldier Summit, 27-29; Tooele, 19, 27.

FARMING OPERATIONS AND CROP CONDITIONS.

During the pleasant weather of the first two decades of the month farming operations advanced rapidly, and fall seeding had been practically completed before the advent of the stormy period toward the close of the month. Considerable plowing for spring crops had also been done, the soft condition of the soil being especially favorable for this work. At the close of the month the ground was thoroughly saturated, besides being covered in the valleys with several inches of snow, while in the higher districts the depth amounted in places to several feet. Fall wheat and rye were coming up well. An increase in the acreage sown to winter wheat was reported from the northern section. The last of the beet and potato crops were gathered during the course of the month. The range was good, though generally covered with snow. Stock was reported in good condition, though the only feeding was confined to animals intended for early shipment.

OBSERVERS' REMARKS.

Aneth.—The precipitation during the month was unusually heavy. The latter part was very cold and stormy, with much wind.—H. R. Antes.

Alpine.—November was a very cold month. Owing to the depth of the snow, all stock had to be fed.—T. B. Whitby.

Farmington.—During the fore part of the month dry weather prevailed. The ground therefore was very dry and hard to work; nevertheless the planting of grain was completed. The rain on the 21st and the snow during the latter part of the month were very beneficial.—Charles Boylin.

Giles.—The steady rain from the 20th to the 22nd washed out old bridges, flumes and levees on the river.—J. C. White.

Heber.—Mild weather prevailed until the last few days of the month, when a severe blizzard set in from the north. During the storm considerable snow fell, which drifted badly.—John Crook.

Henefer.—The storms during the latter part of the month were very beneficial in storing water for the coming season.—Wm. Brewer.

Huntsville.—Fine weather prevailed until the 27th, when 8 inches of snow fell. The last few days were cloudy and stormy.—Lars Petersen.

Kanab.—The first snow of the season came on the 22nd, following a very nice rain. A very heavy rainstorm occurred near the close of the month.—E. M. Ford.

Levan.—The month was abnormally cold.—Wm. Brown.

Marion.—Very little plowing was done, as the ground was too dry until the 20th. A little wheat was sown, but it was too dry to sprout.—James Woolstenhulme.

Marysville.—The month was cold and wet. The snow in the mountains was about 3 feet deep.—John W. Henry.

Meadowville.—The month was exceptionally fine until the 23rd. Fall plowing and sowing were almost completed. The feed on the range was good.—J. S. Moffat.

Moab.—The first snowfall of the season occurred on the 30th, accompanied by rain. Most of the snow melted as it fell.—Henry Crouse.

Morgan.—The high wind on the night of the 28th drifted the snow in the mountains to the hollows.—T. R. G. Welch.

Mt. Nebo. The month was favorable for farm work until

the 20th, when the first snow of the season fell. There has been considerable snowfall in the mountains.—D. C. Walkey.

Ogden.—A very high wind from the east occurred on the 8th and 9th. Its velocity was very high.—W. H. Chevers.

Ogden.—A heavy mountain wind occurred on the night of the 8th that did considerable damage north of this place.—Enoch Farr.

Pinto.—The fore part of the month was very pleasant, and considerable farm work was done. The latter part of the month was cold and stormy.—J. H. Harrison.

Provo.—At 6 p. m. on the 27th the worst storm of the season occurred. It was accompanied by high southeast winds.—Wm. K. Henry.

Ranch.—The month was cold and stormy. Some plowing was done, but this work was completely stopped by the snow.—J. W. Seaman.

Sunnyside.—The month was cold and raw. The mountain were reported covered with about 3 feet of snow.—Henry Cullum.

Tropic.—The snowfall was above normal during the latter part of the month. The depth was about 4 feet in the mountains. All traffic was suspended.—E. P. Bolton.

Emery.—The ground was well soaked, and will be in good condition in the spring.—H. C. Wickman.

Government Creek.—The month was very dry until the 20th.—Walter James.

Deseret.—Notwithstanding the favorable weather, very little fall plowing was done. The soil was in good condition after the storms of the latter part of the month. The range was fairly good.—S. W. Western.

LATE OCTOBER REPORTS.

Strawberry Valley: Total precipitation, .78 inch; greatest in any 24 consecutive hours, .41 on the 30th; total snowfall, 11 inches; number of days with .01 or more precipitation, 3.

Beaver: Mean temperature, 46.0°; highest, 78° on the 4th; lowest, 14° on the 17th; greatest daily range, 49°. Total precipitation, .30 inch; greatest in any 24 consecutive hours, .30 on the 23rd; number of rainy days, 1.

CORRECTIONS TO SEPTEMBER REPORT.

Meadowville: Total precipitation should be 1.40 inches.

Parowan: Total precipitation should be 3.80 inches.

GREAT SALT LAKE.

The gage reading was the same on November 1st and November 15th, 1.1 feet below the zero, but on December 1st the level had risen to 1.0 foot below zero.

Comparative Temperature and Precipitation Data for November During the Past Fifteen Years.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	41.1	80	6	0.21
1892	36.7	76	— 6	0.30
1893	34.4	86	—16	0.83
1894	40.0	82	— 9	0.05
1895	32.7	75	—24	1.47
1896	33.4	78	—20	1.23
1897	39.3	78	— 1	0.96
1898	35.7	82	— 8	0.96
1899	40.5	82	— 3	0.70
1900	40.1	80	1	1.51
1901	41.3	76	0	0.29
1902	36.9	81	—13	1.78
1903	39.1	80	—19	0.73
1904	39.4	83	0	T.
1905	37.9	79	—11	1.53

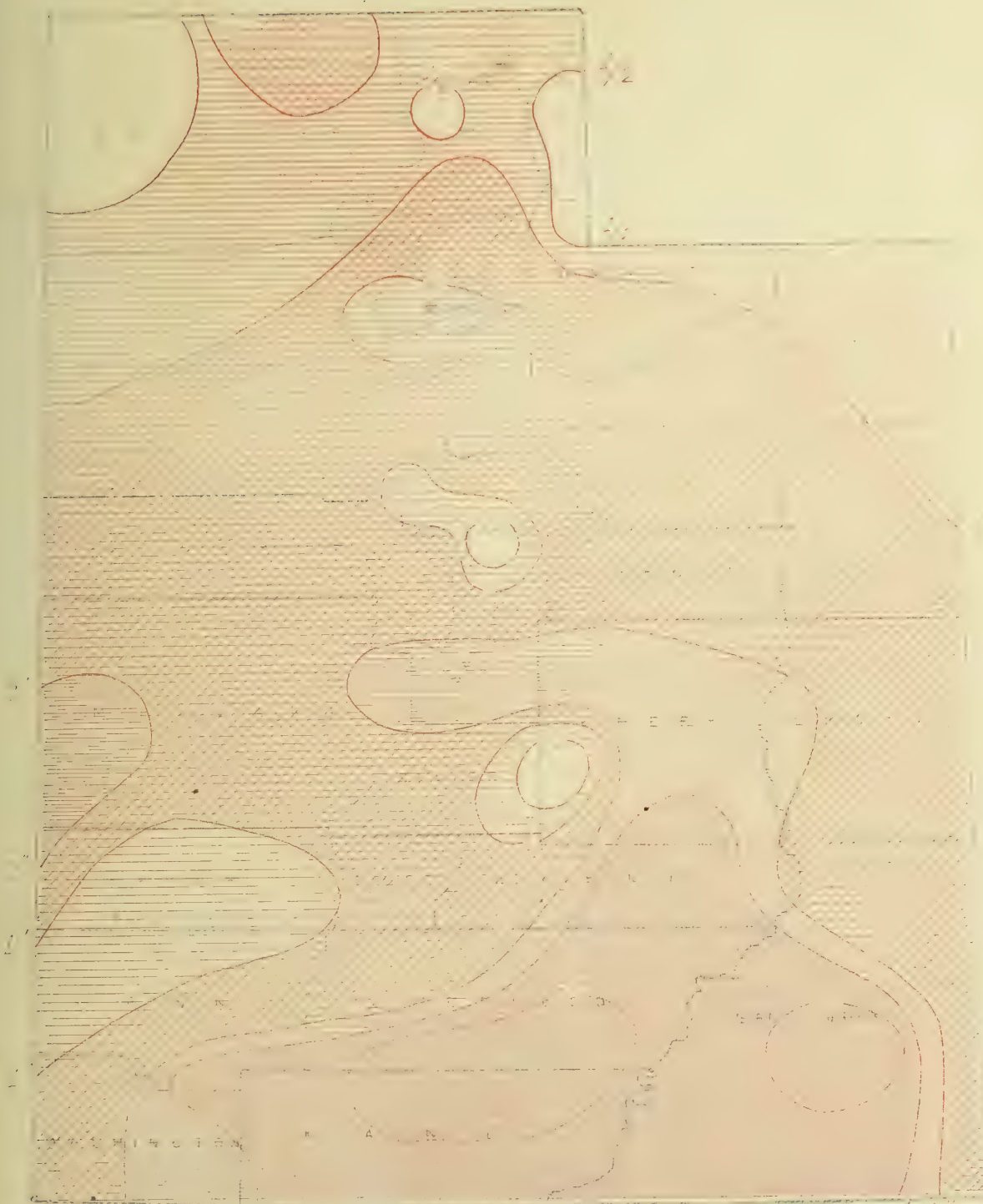
CLIMATOLOGICAL DATA, NOVEMBER, 1905.

Sections and stations	Counties	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches.				Sky.				Prevailing direction of wind	Observers	
				Mean	Departure from the normal.	Highest.	Date.	Lowest	Date	Greatest daily range	Total	Departure from the normal.	Greatest in 24 hours	Total snowfall (unmelted).	Days with at least one inch or more	Number clear days	Number partly cloudy days			Number cloudy days
NORTHERN.																				
Alpine	Utah	4,900	9							1.13	6.23	6.66	6.0	3					T. B. Whitby.	
Castle Rock	Summit		1							0.30	0.20	0.29	7.0	2	15	4	8	sw.	David Moore.	
Corinne	Box Elder	1,240	35	39.0	+2.2	67	8	2	28	44	0.74	-0.28	0.34	4.0	3	15	5	19	n.	W. E. Johnson
Evansville, Wyo.	Uinta	6,950	10	32.0	+0.3	65	13	7	29	50	0.15	-0.75	0.15	1.0	1	24	3	3	sw.	Frank Tucker.
Farmington	Davis	1,267	5	40.0	-1.3	50	9	21	1	33	1.31	+0.24	0.48	9.0	5	19	2	9	nw.	Charles Boylin.
Fr. Duchesne	Uintah	5,000	17	34.8	+1.2	55	*8	5	20	32	1.25	+1.04	0.59	7.0	4	14	4	5		Ferdinand Rohricht.
Hobart	Wasatch	5,000	12	36.2	+0.2	62	*13	2	20	45	0.73	-0.75	0.32	2.5	6	17	1	9	s.	John Crook.
Hood River	Summit	5,301	6	35.1	-0.3	67	13	-11	20	53	1.11	-0.68	0.55	9.5	3	16	3	8	w.	William Brewer.
Huntsville	Weber	5,100	10								1.39	-0.83	1.04	10.0	3	16	6	8		Lars Petersen.
Kelso	Box Elder	4,230	27	27.8	-6.8	60	12	4	29	42	0.42	+0.10	0.20	3.0	1	14	16	6	nw.	Agent So. Pacific Co.
Logan	Cache	4,507	14	40.3	+2.5	68	8	11	*28	32	0.64	-0.59	0.49	0.0	3					W. M. Jardine.
Lucin	Box Elder			39.0		64	13	3	29	41	0.10		0.10	1.0	1					W. M. Maughmies.
Monticello - T3	Rich	6,200	6	33.1	-1.7	55	17	0	29	32	0.90	-0.65	0.50	8.0	4	17	4	9		J. S. Moffat.
Mottville	Cache	4,818	10								0.41	-1.38	0.16	0.0	5					Fred Yeates.
Morgan T1	Morgan	5,680	2	35.9		62	*12	4	29	51	1.34		0.65	10.0	4	18	6	5	se.	T. R. G. Welch.
Oakley, Idaho	Cassia	4,191	12																	Thomas Adams.
Ogden No. 1	Weber	4,310	4	40.8		60	8	11	29	33	0.92		0.55	3.5	5	15	6	0	se.	Enoch Farr.
Ogden No. 2 T3	Weber	4,310	35	38.8	-0.6	59	*13	24	30		1.31	+0.15	0.67	8.1	4	17	3	19	w.	W. H. Chevers.
Park City	Summit	7,580	8																	P. S. McKimmins.
Pocatello, Idaho	Bannock	4,483	5	37.2	-2.2	64	3	13	22	41	0.73	-0.56	0.61	7.2	4	14	13	3	e.	Weather Bureau.
Railroad	Rich		1								0.21		0.11	3.5	2	21	6	9	sw.	Wm. Rex.
Saltair Beach	Salt Lake		2	41.3		61	12	18	29	33	0.89		0.61	3.5	4					Francis W. Bailey.
Salt Lake City	Salt Lake	4,376	32	41.8	+2.0	61	3	18	29	26	0.73	-0.63	0.40	3.0	4	19	3	8	se.	Section Center.
Snowville T1	Box Elder	4,360	15	33.4	-3.8	68	12	5	29	51	1.80	+0.74	1.00	18.0	3	13	6	11	n.	Joseph Robbins.
Tooele	Tooele	4,000	9	39.0	-1.3	56	19	10	20	26	1.67	+0.18	1.14	0.0	4	21	2	7	s.	I. J. Elkington.
Vernal (near)	Uintah		10	32.4	-2.8	53	21	3	27	39	0.97	+0.33	0.47	5.0	5	17	4	9		Joab Collier.
Weston, Idaho	Oneida	4,460	7	37.8		64	8	3	29	45	0.98		0.32	3.5	5	16	3	11	s.	William Chatterton.
Woodruff	Rich	6,500	8																	Thomas Ashton.
Averages				36.9	-0.5						0.99	-0.19		5.6	4	17	5	8	se.	
MIDDLE.																				
Black Rock	Millard	4,872	5																	Willard Burbank.
Castle Dale - T1	Emery	5,500	6	35.0	-2.0	65	13	5	30	52	2.55	+2.14	1.75		3	14	8	8		James Jeffs.
Cisco	Grand	4,385	13	40.6	+1.5	63	*6	13	1	45	1.51	+1.33	1.00	0.1	3					H. T. Matthews.
Deseret	Millard	4,541	11	37.0	-0.4	68	3	10	15	55	1.25	+0.92	0.75	8.0	5	17	1	12	n.	S. W. Western.
Emery	Emery	6,260	5	34.3	-10.3	56	*10	10	30	31	0.48	+0.41	0.38		2	10	8	12	e.	H. C. Wickman.
Fillmore	Millard	5,100	15	43.4	+1.9	78	3	18	29	50	1.13	+0.23	0.50	0.0	6					J. J. Starley.
Garrison	Millard		2	37.2		63	3	12	29	35	2.14			6.0	4	15	6	9	n.	E. M. Smith.
Gov'n't Creek	Tooele	5,277	5	37.4	-2.7	62	3	5	*28	32	1.69	+0.83	0.96	14.0	4	20	6	4	s.	Walter James.
Grand Junction, Col.	Mesa	4,008	14	42.0	+1.9	67	21	18	29	35	0.75	+0.12	0.56	0.1	6	19	4	7	nw.	Weather Bureau.
Green River	Emery	4,480	8	44.6	+4.7	79	26	16	5	53	2.30	+1.86	1.20	0.0	2	19	0	11		Louis C. Farrer.
Hebeph	Tooele		2																	Owen Sheridan.
Indianola	San Pete		1								0.18		0.10		2					R. H. Spencer.
Levan	Juab	5,010	15	36.6	-0.3	59	3	8	29	35	1.22	+0.31	0.72	10.5	7	17	3	10	n.	William Brown.
Manti T2	San Pete	5,575	11	36.6	-0.3	62	*3	7	29	41	2.99	+2.39	1.62		6	15	0	3		W. M. Harmon.
Mt. Nebo	Utah	4,650	4	38.8		58	3	14	29	29	0.88		0.71	3.0	4	18	5	7	n.	D. C. Walkey.
Mt. Pleasant	San Pete	5,859	13	37.6	-1.9	60	*2	7	28	37	1.15	+0.36	0.68	3.0	4	20	9	1		Web Greene.
Nephi	Juab		1								1.23		0.77		5	14	6	10		H. D. Allred.
Oak City	Millard			39.9		65	1	12	29	38	1.55		0.61	0.0	5	14	9	6	w.	J. Finlinson.
Payson	Utah	4,637	1								1.27		0.73		4	20	5	5	sw.	W. C. Wightman, Jr.
Provo	Utah	1,532	13	39.5	+0.8	63	20	15	29	38	0.89	-0.50	0.30	4.0	5	8	11	11	nw.	Caleb Tanner.
Scipio	Millard	5,260	10	35.4	-2.2	64	3	4	29	45	2.66	+1.56	1.57	7.0	7	14	3	13	sw.	Thomas Memmott.
Solihier Summit - T2	Utah	7,474	13	31.2	+2.7	64	14	0	29	41	1.25	+0.12	0.60	13.0	5	12	0	16	sw.	Agent Rio Grande R. R.
Thistle - T2	Utah	5,475	13	34.6	-2.3	68	20	1	28	55	1.15	+0.67	0.50	9.0	4	21	0	9		J. H. Mitchell.
Trout Creek	Juab			35.9		64	3	13	12	47	1.25		1.04	12.0	3	16	6	8		E. E. Edwards.
Utah Lake Pump Sta	Utah			35.4		58	5	5	29	32	1.09		0.50	5.0	4	15	7	8		W. A. Knight.
Wellington	Carbon	5,540	6																	E. E. Branch.
Averages				37.4	0						1.43	+0.68		5.9	4	16	5	9	n.	
SOUTHERN.																				
Aneth	San Juan	4,800	5	43.9	+1.1	68	*1	16	29	38	1.96	+1.49	0.90		6	15	6	9	w.	H. R. Antes.
Beaver	Beaver		1	39.8		70	4	10	30	44	0.85		0.15		2					A. B. Anderson.
Bedar City	Iron			39.2		66	16	9	30	35	3.36		1.25	5.8	6	20	6	4	sw.	Prof. R. V. Smith.
Bozoyto - T7	Garfield		4	30.4		66	14	5	*23	55	1.69		0.85		5	12	2	9		H. J. McCullough.
Bearlante	Garfield	5,700	5																	W. G. Bleak.
Exper. Farm	Washington		1	46.6		73	2	25	*28	39					13	0	17			Joseph T. Atkin.
Frisco	Beaver	7,318	11	39.5	-2.6	67	2	14	29	35	0.83	+0.55	0.38	1.0	4	15	6	9	n-sw	S. N. Slaughter.
Hiles	Wayne	4,000	10	41.2	+3.0	67	13	20	15	47	3.57	+3.35			6	20	3	7		J. C. White.
Iravson	San Juan			40.1		71	4	6	29	44	4.17		1.80	2.0	9	0	10	11	s.	Joseph D. Lyman.
Itte	Garfield	3,000	6	48.2	+0.8	72	3	26	29	38	3.83		2.00	0.0	5	18	7	5		F. W. Gibbons.
Kanab - T8	Kane	4,925	5	37.4		65	2	10	*25	46	3.20		1.40		5	14	0	11		E. M. Ford.
La Sal - T1	San Juan	7,000	5	37.5		58	*3	6	29	32	1.80		0.79		5	16	8	5		Mrs. G. W. Carpenter.
Loa	Wayne	7,000	13	29.6	-2.4	58	16	0	*23	46	1.05	+0.71	0.65	10.5	2					Michael Hansen.
Larysville (near)	Piute	6,180	6	35.2		69	1	4	29	50	1.78		0.81	9.6	9	13	4	13	n.	John W. Henry.
Minersville	Beaver	5,070	8																	R. W. Dotson.
Moab	Grand	4,000	16	43.9	+3.2	66	3	20	29	41	1.55	+1.04	1.05	1.0	6	12	9	9		Henry Crouse.
Moena	Iron	5,479	5	37.3	-1.7	64	3	7	29	38	0.90	+0.54	0.42	6.6	6	13	9	8	w.	Weather Bureau.
Parowan	Iron	5,976	14	36.2	-2.8	61	*2	7	29	35	1.11	+0.60	0.4							

MAXIMUM AND MINIMUM TEMPERATURES, NOVEMBER, 1905.

Stations and sections	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES IN INCHES



Sections and stations.

Day of month.

† Precipitation incomplete.

861.05
VNg
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR DECEMBER, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

R. J. HYATT,

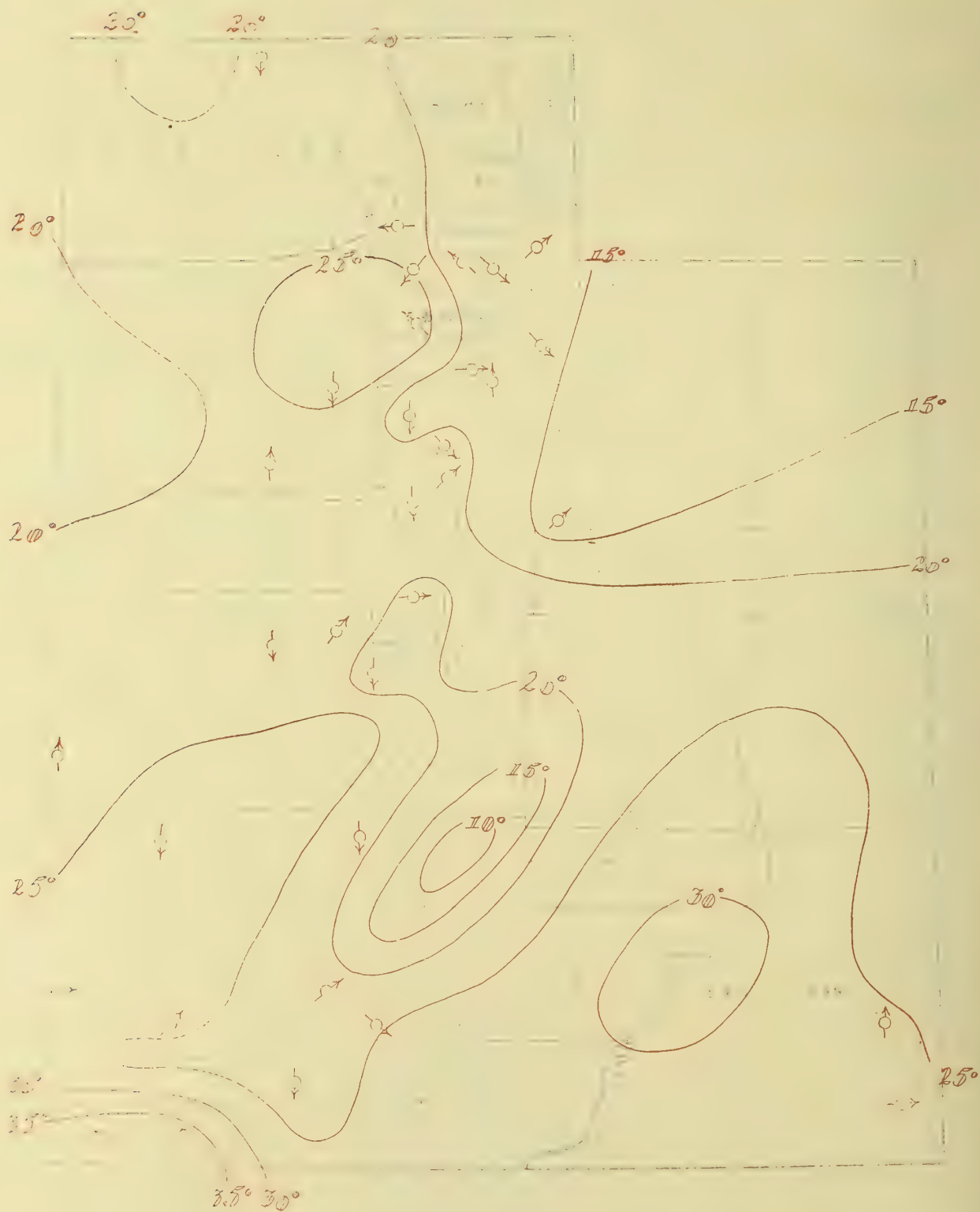
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

JAN. 27, 1906

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

SALT LAKE CITY, UTAH.

VOL. VIII.

December, 1905.

No. 2.

WEATHER.

Under the influence of a persistent high barometric pressure that remained nearly stationary over the intermountain region during the fore part of the month, fair and cold weather prevailed during that period. Clouds were either entirely absent or covered but a small portion of the sky, while the light winds and numerous calms allowed a stagnation of air over the valleys, in which the dust rapidly accumulated, producing a hazy condition of the atmosphere and inducing numerous fogs during the morning hours. With the break-up and gradual disappearance of the dominating high pressure toward the close of the second decade came a marked change in the weather. From that time on numerous storms occurred, some of them precipitating a large amount of snow in the mountains and a moderate amount in the valleys. Temperatures, however, continued uniformly cold during the remainder of the month, and in the northern portion the wind remained light, two conditions that were very unfavorable for packing and drifting the snow. In the southern portion the more active air movement caused the snow to be stored in the canyons and gulches for spring and summer use in much better condition. Toward the close of the month the valleys were covered with a layer of snow several inches deep, while in the mountains the depth in many cases amounted to several feet.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 22.8° , or 5.3° below the normal. The highest local monthly mean was 37.8° at Rockville; the lowest was 7.8° at Loa. The highest temperature recorded was 63° at Rockville on the 15th; the lowest was 32° below zero at Strawberry Valley on the 10th, giving an absolute range for the section of 95° . The greatest daily range for any station was 59° at Panguitch on the 16th. The highest temperatures of the month were generally recorded on the 16th, and the lowest on the 30th.

PRECIPITATION.

The average precipitation, determined from the reports of 72 stations, was 0.62 inch, or 0.42 inch below the normal. There was decided deficiency over all portions of the section, though the mountain stations generally reported amounts in excess of the normal. The greatest monthly amount was 2.30 inches at Payson, and the least a trace at Randolph, Hite and Panguitch. The great-

est rainfall in any 24 consecutive hours was .72 inch at Alta on the 27th. The precipitation during the month was almost entirely in the form of snow, the fall being the greatest over the northern portion, and gradually decreasing to the southward.

WIND AND WEATHER.

The prevailing direction of the wind for the section was north. The total number of miles recorded at Salt Lake City was 2,549; at Modena, 6,212; at Grand Junction, Colo., 2,590; and at Pocatello, Idaho, 5,706. The maximum velocity at Salt Lake City was 20 miles per hour from the west on the 1st; at Modena, 38 miles from the east on the 9th; at Grand Junction, Colo., 16 miles from the east on the 29th; and at Pocatello, Idaho, 34 miles from the southwest on the 1st.

The average number of clear days for the section during the month was 18; partly cloudy days, 6; cloudy days, 7. Determined from the records of automatic sunshine recorders, Salt Lake City had 57 per cent; Modena 74 per cent; Grand Junction, Colo., 73 per cent; and Pocatello, Idaho, 72 per cent of the possible amount of sunshine.

The mean relative humidity for the month at Salt Lake City was 74 per cent, the lowest observed reading being 50 per cent on the 30th; at Modena, 68 per cent, the lowest observed reading being 28 per cent on the 15th; at Grand Junction, Colo., 68 per cent, the lowest observed reading being 37 per cent on the 15th; and at Pocatello, Idaho, 79 per cent, the lowest observed reading being 46 per cent on the 15th.

There was an average of 4 days with .01 inch or more of precipitation, 4 over the northern and middle portions, and 2 over the southern portion.

MISCELLANEOUS PHENOMENA.

(Stations and dates of occurrence).

Sleet.—Cedar City, 26.

Coronae, solar.—Cedar City, 7, 30.

Hail.—Cedar City, 26; Marysville, 19; Richfield, 20, 27.

Aurora.—Coyote, 7; Mt. Nebo, 2, 3, 8; Salt Lake City, 8.

Coronae, lunar.—Government Creek, 7; Marysville, 8, 13, 18.

Haze, light.—Salt Lake City, 4-7, 9, 11-18; Richfield, 15, 16.

Parhelia.—Alpine, 29; Marion, 7, 17, 29; Meadowville, 2; Richfield, 22.

Halos, solar.—Marion, 21; Modena, 7; Mt. Nebo, 2; Pinto, 6, 7; Ranch, 2.

High winds.—Deseret, 21, 28, 31; Frisco, 31; Garrison, 21, 30, 31; Henefer, 1, 29; Marysville, 31; Meadowville, 26, 27; Modena, 9; Utah Lake Pumping Station, 29, 31.

Halos, lunar.—Government Creek, 6; Henefer, 6, 10; Levan, 7; Marion, 6; Marysville, 4, 7; Modena, 7, 18; Mt. Nebo, 3, 8; Pinto, 6, 7; Ranch, 3, 28; Richfield, 13; Tropic, 10.

Fog, light.—Castle Rock, 4; Cedar City, 28; Garrison, 4-8; Henefer, 4, 5; Marion, 4, 5; Randolph, 5-7, 25, 26, 29-31; Salt Lake City, 4, 8, 9, 11, 13, 14, 17, 18; Tooele, 7, 8; Trout Creek, 5-8; Utah Lake Pumping Station, 23; Vernal, 8.

Fog, dense.—Castle Rock, 5; Deseret, 5-8, 27; Government Creek, 8, 26; Huntsville, 4-7; Levan, 8, 20, 21, 27; Meadowville, 6, 8, 11-13; Modena, 6; Mt. Nebo, 6, 8, 27; Nephi, 8; Payson, 6-8; Provo, 5; Richfield, 21; Salt Lake City, 7, 15, 16, 21, 26, 27; Snowville, 6, 7; Utah Lake Pumping Station, 4-6.

CROP CONDITIONS.

Farming operations were pursued during the fore part of the month under favorable conditions of weather and temperature. Plowing and seeding of fall grain proceeded to completion. The advent of the stormy period, with frequent snows, effectually stopped all further operations. The ground was covered with a layer of snow that remained on account of the uniformly low temperature and light winds. Owing to the protection afforded by snow, the condition of fall wheat at the close of the month was very good. Stock was also generally in good condition, although feeding was necessary in many localities.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF DECEMBER, 1905.

Conditions at the close of the year 1905 in regard to snowfall were distinctly favorable. With the exception of Summit county and a few isolated localities throughout the remainder of the section where the snowfall was reported below the average, a much larger amount had fallen than usual. The first snowstorm of the season occurred during November, and since that time there were numerous storms, some of them quite severe. Throughout the northern half of the section the snow was, however, quite loose and not well drifted, owing to the uniformly low temperatures and the absence of high winds. In the southern half the condition of the snow was more favorable, being solid and well packed, as well as well drifted, especially on the mountains and in the gulches and canyons. Altogether, the prospect at the close of the year for an abundant supply of water during the approaching growing season was very bright.

OBSERVERS' REMARKS.

Alpine.—The past month was very cold, and the snowfall was quite dry.—Thomas B. Whitby.

Castle Dale.—We had much snow in the mountains the past month, but none in the valley till Dec. 31, 1905.—James Jeffs.

Castle Rock.—Snowfall for the month was very light; the morning temperatures ranged very low.—David Moore.

Deseret.—Very cold month; ground frozen quite deep; very little snow; no farming operations going on; Sevier river frozen over solidly; plenty of ice.—S. W. Western.

Farmington.—The first half of the month was clear and snappy weather, being good for stock feeding; the large amount of snow that fell during the last half of the month made the prospects for water during the coming season very good.—Charles Boylin.

Frisco.—Snow began at 6.30 a. m. Dec. 31, with high wind from the north.—S. N. Slaughter.

Government Creek.—The most wintry December on record here; cold through the whole month.—Walter James.

Heber.—Very cold month; precipitation below the average.—John Crook.

Henefer.—The coldest December here in 33 years, that is, for continued cold weather.—Wm. Brewer.

Huntsville.—The fore part of the month was fine, but quite cold; the latter part was stormy and changeable, but no high winds occurred.—Lars Petersen.

Marion.—Very cold, dry month; some drifting winds occurred, which piled the snow in drifts, leaving the intervening ground nearly bare.—James Woolstenhulme.

Marysville.—Month was exceptionally cold; cattle were in fair condition considering the cold weather; the snow in the mountains was well drifted.—John W. Henry.

Meadowville.—The month was very dry and cold; stock feeding begun.—J. S. Moffat.

Morgan.—This was the coldest December recorded at this station; the snow that fell was deficient in moisture, being light and dry, owing to the extreme cold.—T. R. G. Welch.

Mt. Nebo.—The weather during the month was colder than usual; the ground was frozen about a foot; a large amount of snow fell in the mountains during the month.—D. C. Walkey.

Pinto.—An unusually cold month.—J. H. Harrison.

Ranch.—A very cold, windy month; no farming was done; stock did very well; feed was apparently plentiful.—J. W. Seaman.

Sunnyside.—A cold, bleak month; the snowfall was very light in character and quantity.—Henry Cullum.

Tropic.—The month was colder than the normal; about three feet of well-packed snow in the mountains; an abundance of water for spring.—Edw. P. Bolton.

LATE REPORTS.**OCTOBER.**

Aneth: Mean temperature, 52.4°; departure from the normal, -3.2°; highest temperature, 85° on the 7th and 8th; lowest, 30° on the 9th, 14th and 17th; greatest daily range, 46°; precipitation not recorded; number of clear days, 29; partly cloudy days, 2; cloudy days, none; direction of wind, west.

NOVEMBER.

Panguitch: Total precipitation, 1.60 inches; greatest in any 24 consecutive hours, .60 on the 22nd; number of rainy days, 5; clear days, 16; partly cloudy days, none; cloudy days, 15; direction of wind, southwest.

CORRECTIONS TO SEPTEMBER REPORT.

Thistle, page 8: Precipitation on the 22nd recorded .10, should be .02; precipitation on the 24th recorded .23, should be .33.

GREAT SALT LAKE.

A slight rise in the stage of the water was noted during the month, the readings on December 1st, 15th and January 1st, 1906, being exactly one foot below the zero of the gage.

Comparative Temperature and Precipitation Data for December During the Past Fifteen Years.

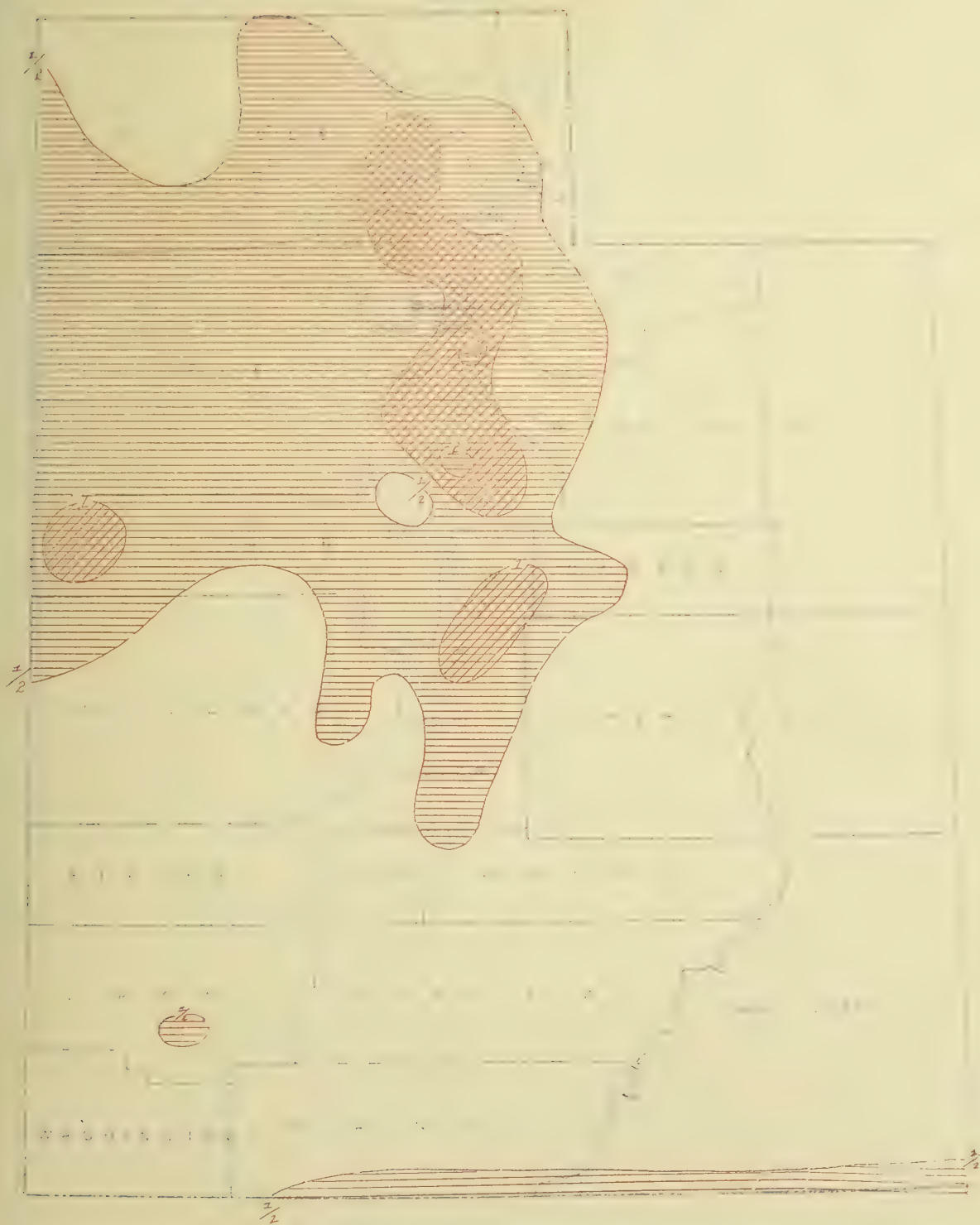
Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	26.0	71	-19	1.42
1892	25.0	66	-19	1.27
1893	31.1	70	-19	1.30
1894	26.3	64	-17	1.94
1895	21.0	64	-24	0.78
1896	31.0	66	-3	0.46
1897	22.7	68	-19	1.16
1898	23.1	72	-17	0.63
1899	25.2	74	-26	0.95
1900	30.6	68	-27	0.14
1901	29.0	71	-18	0.81
1902	27.0	66	-25	0.89
1903	26.4	76	-26	0.37
1904	28.8	81	-25	0.74
1905	22.8	63	-32	0.62

CLIMATOLOGICAL DATA, DECEMBER, 1905.

Sections and stations.	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
NORTHERN.																					
Corinne	Box Elder	4,240	35	22.2	-6.7	48	16	-4	22	36	1.00	-0.51	0.50	10.0	4	18	0	13	.....	Agent So. Pacific R. R.
Evansville, Wyo.	Uinta	6,959	10	10.6	-3.2	47	14	-15	22	42	0.32	-1.15	0.20	3.0	3	23	7	1	sw.	Frank Tucker.	
Farmington	Davis	4,267	5	26.8	-4.3	46	17	1	30	27	1.67	+0.19	0.43	16.7	6	21	2	8	ne.	Charles Boylin.	
Ft. Duchesne	Uintah	5,000	17	12.1	-7.0	24	*4	-11	*23	33	0.20	-0.31	0.20	2.0	1	18	7	6	.....	Post Surgeon.
Hobbs	Wasatch	5,666	12	17.0	-5.7	45	16	-14	30	28	0.80	-0.80	0.22	15.0	8	19	4	8	s.	John Crook.	
Homer	Summit	5,301	6	16.3	-7.9	50	16	-20	23	42	1.16	-0.14	0.30	12.0	7	21	5	5	nw.	William Brewer.	
Huntsville	Weber	5,100	10								0.96	-0.71	0.31	12.0	4	13	9	9	.....	Lars Petersen.
Kelton	Box Elder	4,230	27	16.0	-12.3	30	*2	-3	1	31	0.20	-0.51	0.20	2.0	1	11	16	4	nw.	Agent So. Pacific Co.	
Logan	CACHE	4,507	14	19.3	-6.5	45	16	-3	1	31	0.30	-0.73	0.12	2.0	3				.....	J. B. Nelson.
Lucin	Box Elder	4,230	27	16.0	-12.3	30	*2	-3	1	31	0.20	-0.51	0.20	2.0	1	11	16	4	nw.	Agent So. Pacific R. R.	
Meadowville	Rich	6,200	6	19.4	-6.5	40	16	-4	23	28	0.40	-0.61	0.30	4.0	2	17	7	7	w.	J. S. Moffat.	
Millville	CACHE	4,848	10								0.34	-0.74	0.12	2.0	4				.....	Fred Yeates.
Morgan	Morgan	5,080	2	15.8		57	16	-18	23	44	1.02	0.25	11.9	6	17	10	4	se.	T. R. G. Welch.		
Jakley, Idaho	Cassia	4,191	12								1.35								.....	Thomas Adams.
Jaden No. 1	Weber	4,310	4	24.2		45	16	4	30	24	1.35		0.48	14.5	6	19	5	7	e.	Enoch Farr.	
Jaden No. 2	Weber	4,310	35	29.2	-2.3	41	16	15	28	30	0.02	-0.02	0.50	16.0	6	19	5	7	e.	W. H. Chevers.	
Mark City-Tis P18 S	Summit	7,800	8			43	16	1	10	30	0.02		0.02	0.2	1				.....	P. S. McKimmins.
Locatello, Idaho	Bannock	4,483	5	23.2	-2.8	44	16	3	11	30	0.43	-1.10	0.20	4.1	7	10	16	5	e.	Weather Bureau.	
Sandolph	Rich		1								T.		T.	T.	0	25	3	5	sw.	Wm. Rex.	
Salt Lake Beach-T1	Salt Lake		2	25.8		40	4	3	30	27	0.67	-0.19	11.2	7	7				.....	Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	32	26.2	-6.5	44	16	7	30	22	0.83	-0.81	0.18	10.1	8	13	6	12	se.	Section Center.	
Snowville	Box Elder	4,360	15	20.6	-5.3	50	4	-9	*23	42	0.60	-0.43	0.30	6.0	3	11	9	11	n.	Joseph Robbins.	
Straw, Val. T16 P16 S	Wasatch					48	7	-32	10	56	1.31			13.4	3	14			.....	A. B. Larson.
Tooele	Tooele	4,900	9	25.7	-3.4	44	*16	5	30	26	0.71	-0.21	0.32		4	17	4	10	n.	I. J. Elkington.	
Ugual (near)	Uintah		10	12.2	-6.6	30	9	-6	23	23	0.21	-0.31	0.16	3.3	2	22	3	6	.....	Joab Collier.
Ugual, Idaho	Oncida	4,460	7	19.4		45	16	-9	22	35	0.30	0.20	3.5	4	9	7	15	s.	William Chatterton.		
Woodruff	Rich	6,500	8										10.8	4	16	6	9	nw.	Thomas Ashton.		
MIDDLE.																					
Black Rock	Millard	4,872	5								0.25	+0.19	0.25	2.5	1	22	8	0	.....	Willard Burbank.
Castle Dale	Emery	5,500	6	20.2	-4.4	51	13	-9	23	49	0.25								.....	James Jeffs.
Escalante	Grand	4,385	13								0.13	-0.39	0.08	4.0	3	15	6	10	n.	Agt. Rio Grande W. R. R.	
Emery	Millard	4,541	11	21.0	-4.4	50	16	-9	30	43	0.13								.....	S. W. Western.
Fillmore	Emery	6,260	5								0.54	-0.54	0.20		5				.....	H. C. Wickman.
Johnson	Millard	5,100	15	27.3	-2.4	54	16	-1	30	37	0.54		0.06		2	16	5	10	s.	J. J. Starley.	
Johnson Creek	Tooele	5,277	2	23.6		55	19	0	*22	36	0.11		0.15	7.5	5	18	5	8	s.	E. M. Smith.	
Grand Junction, Col.	Mesa	4,608	5	21.0	-8.4	48	15	-2	23	35	0.63	-0.15	0.08	2.3	5	22	4	5	se.	Walter James.	
Green River	Emery	4,608	14	25.8	-2.0	47	12	3	30	31	0.23	-0.18	0.10	1.0	1	27	1	3	.....	Weather Bureau.
Hatch	Tooele	4,080	8	25.1	+0.2	49	23	-1	30	43	0.10	-0.07	0.20	7.5	5	16	13	2	.....	Louis C. Farrer.
Idaho Falls	San Pete		2	15.7		43	16	-22	23	45	0.75		0.66		3				.....	Owen Sheridan.
Juan	Juab	5,010	15	19.0	-6.3	44	16	-5	30	30	0.94	-0.76	0.25	9.6	5	18	5	8	w.	R. H. Spencer.	
Laurel-T1	San Pete	5,575	11	20.8	-5.0	48	18	-3	23	34	1.10	+0.39	0.40	11.0	5	6	20	4	.....	William Brown.
Liberty	Utah	4,050	4	21.4		49	17	-5	30	28	0.32		0.16	6.0	5	15	6	10	n.	W. M. Harmon.	
Littleton	San Pete	5,859	13	22.6	-4.8	54	10	-6	29	33	1.10	-0.23	0.40	11.0	4	21	10	0	.....	D. C. Walkey.
Mapleton	Juab		1								0.69		0.25	8.8	5	18	7	6	.....	Web Greene.
Mayfield	Utah	4,637	1	23.1		52	16	-3	22	32	0.54		0.19	4.0	6	21	6	4	sw.	A. Madsen.	
Mayfield-T6	Utah	4,532	13	21.9	-7.3	51	16	-10	30	40	1.80	+0.42	0.60	18.0	5	20	3	8	sw.	J. Finlinson.	
Mineral	Sevier		10	24.0	-4.5	54	16	-1	23	41	0.28	-0.43	0.10	2.8	4	14	6	5	nw.	W. C. Wightman, Jr.	
Mineral Summit	Millard	5,260	10	19.1	-6.9	55	17	-16	*30	51	0.50	-0.43	0.18	5.0	6	21	1	9	n.	W. K. Henry.	
Moab	Utah	7,474	13	13.8	-3.8	30	*8	-13	30	33	0.37	-1.34	0.17	7.0	4	21	1	9	n.	Anton Nielsen.	
Mountain Creek	Juab	5,475	13	19.2	-6.5	48	16	-13	29	44	1.50	+0.07	0.40	15.0	5	21	1	9	sw.	Thomas Memmott.	
North Lake Pmp. Sta	Utah		24.0			50	5	-5	28	36	0.13		0.13	3.0	1	15	8	8	.....	Agent Rio Grande R. R.
Orlinton-T1	Carbon	5,540	6	23.0	-3.2	51	*11	-7	*20	46	0.73	-0.32	0.29	14.0	9	13	4	14	n.	Agt. Rio Grande W. R. R.	
Averages				21.2	-5.2						0.73	-0.32	8.3	4	18	6	7	n.	E. E. Edwards.		
SOUTHERN.																					
Albany	San Juan	4,800	5	28.0	-2.8	50	16	-2	30	34	0.20	-0.08	0.20	2.0	1	23	5	3	w.	Miss S. Hubert.	
Albany	Beaver		1	27.6		61	16	-3	29	47	0.20		0.20						.....	A. B. Anderson.
Albany City	Iron		1	28.5		55	*14	-2	23	40	0.54		0.21	5.6	5	24	11	6	sw.	Prof. R. V. Smith.	
Albany	Garfield		4	14.6	-9.1	39	10	-19	30	44	0.01	-0.31	0.01	0.1	1	17	4	10	.....	H. J. McCullough.
Albany	Garfield	5,700	5																.....	W. G. Bleak.
Albany	Washington		1	35.8		61	12	12	23	42									.....	Joseph T. Atkin.
Albany	Beaver	7,318	11	29.8	-2.8	57	15	3	28	33	0.30	-0.03	0.23						.....	S. N. Slaughter.
Albany	Wayne	4,000	10	27.8	+3.2	48	*13	3	30	33	0.12	-0.04	0.07	1.8	2	17	9	5	n.	J. C. White.	
Albany	San Juan		6	26.3	-1.5	56	15	4	*23	33	0.25		0.25	2.5	1	20	6	5	s.	Joseph D. Lyman.	
Albany	Garfield	3,000	6	34.3		50	12	14	30	30	T.	-0.11	T.	1.0	0	25	3	3	.....	F. W. Gibbons.
Albany	Kane	4,925	5	25.5		54	13	1	24	45	0.50	-0.02	0.30	5.0	2	28	0	3	.....	E. M. Ford.
Albany	San Juan	7,000	3	21.8		50	15	-2	23	32	0.39		0.16	3.9	3	24	5	1	.....	Mrs. G. W. Carpenter.
Albany	Wayne	7,000	13	7.8	-14.8	35	16	-21	23	44	0.16	-0.29	0.08	2.6	4	12	10	9	n.	Michael Hansen.	
Albany	Piute	6,180	6	26.8	-7.4	51	16	-13	30	44	0.16	-0.29	0.08	2.6	4	12	10	9	n.	John W. Henry.	
Albany	Beaver	5,070	8																.....	R. W. Dotson.
Albany	Grand	4,000	10	27.8	-3.0	48	*16	6	30	33	0.11	-0.59	0.67	1.0	3	10	16	5	.....	Henry Crouse.
Albany	Iron	5,479	5	26.4	-2.4	54	15	0	24	39	0.20	+0.04	0.15	2.3	2	12	15	4	w.	Weather Bureau.	
Albany	Iron	5,970	14	25.2	-3.2	56	15	-2	30	35	0.32	-0.53	0.25	3.4	3	18	9	4	n.	James Connell.	
Albany	Sevier	5,947	8	22.6	-4.8	55	*14	-8	*24	50	0.08	-0.35	0.05	3.5	3	16	9	3	n.	J. H. Harrison.	

temperatures below zero in boldface.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

‡ Not recorded.

UNQ
U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1905.

UTAH SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU

BY

R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

APRIL 9, 1906.

A hand-drawn map of Utah and surrounding regions, including parts of Idaho, Nevada, Arizona, and New Mexico. The map is divided into counties by dashed lines. The counties labeled are: BOX ELDER, CACHE, W B, MORGAN, DAVIS, SUMMIT, T O D E L E, U T A H, W A S A T C H, J U A B, C A R B O N, S A N P E T E, E M E R Y, G R A N D, S E V I E R, K A P P E L D, S A N J U A N, and K A N Z A S. The map includes several handwritten annotations in red ink, including "A", "B", "C", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z", "AA", "AB", "AC", "AD", "AE", "AF", "AG", "AH", "AI", "AJ", "AK", "AL", "AM", "AN", "AO", "AP", "AQ", "AR", "AS", "AT", "AU", "AV", "AW", "AX", "AY", "AZ", "BA", "BB", "BC", "BD", "BE", "BF", "BG", "BH", "BI", "BJ", "BK", "BL", "BM", "BN", "BO", "BP", "BQ", "BR", "BS", "BT", "BU", "BV", "BW", "BX", "BY", "BZ", "CA", "CB", "CC", "CD", "CE", "CF", "CG", "CH", "CI", "CJ", "CK", "CL", "CM", "CN", "CO", "CP", "CQ", "CR", "CS", "CT", "CU", "CV", "CW", "CX", "CY", "CZ", "DA", "DB", "DC", "DD", "DE", "DF", "DG", "DH", "DI", "DJ", "DK", "DL", "DM", "DN", "DO", "DP", "DQ", "DR", "DS", "DT", "DU", "DV", "DW", "DX", "DY", "DZ", "EA", "EB", "EC", "ED", "EE", "EF", "EG", "EH", "EI", "EJ", "EK", "EL", "EM", "EN", "EO", "EP", "EQ", "ER", "ES", "ET", "EU", "EV", "EW", "EX", "EY", "EZ", "FA", "FB", "FC", "FD", "FE", "FF", "FG", "FH", "FI", "FJ", "FK", "FL", "FM", "FN", "FO", "FP", "FQ", "FR", "FS", "FT", "FU", "FV", "FW", "FX", "FY", "FZ", "GA", "GB", "GC", "GD", "GE", "GF", "GG", "GH", "GI", "GJ", "GK", "GL", "GM", "GN", "GO", "GP", "GQ", "GR", "GS", "GT", "GU", "GV", "GW", "GX", "GY", "GZ", "HA", "HB", "HC", "HD", "HE", "HF", "HG", "HH", "HI", "HJ", "HK", "HL", "HM", "HN", "HO", "HP", "HQ", "HR", "HS", "HT", "HU", "HV", "HW", "HX", "HY", "HZ", "IA", "IB", "IC", "ID", "IE", "IF", "IG", "IH", "II", "IJ", "IK", "IL", "IM", "IN", "IO", "IP", "IQ", "IR", "IS", "IT", "IU", "IV", "IW", "IX", "IY", "IZ", "JA", "JB", "JC", "JD", "JE", "JF", "JG", "JH", "JI", "JJ", "JK", "JL", "JM", "JN", "JO", "JP", "JQ", "JR", "JS", "JT", "JU", "JV", "JW", "JX", "JY", "JZ", "KA", "KB", "KC", "KD", "KE", "KF", "KG", "KH", "KI", "KJ", "KK", "KL", "KM", "KN", "KO", "KP", "KQ", "KR", "KS", "KT", "KU", "KV", "KW", "KX", "KY", "KZ", "LA", "LB", "LC", "LD", "LE", "LF", "LG", "LH", "LI", "LJ", "LK", "LL", "LM", "LN", "LO", "LP", "LQ", "LR", "LS", "LT", "LU", "LV", "LW", "LX", "LY", "LZ", "MA", "MB", "MC", "MD", "ME", "MF", "MG", "MH", "MI", "MJ", "MK", "ML", "MM", "MN", "MO", "MP", "MQ", "MR", "MS", "MT", "MU", "MV", "MW", "MX", "MY", "MZ", "NA", "NB", "NC", "ND", "NE", "NF", "NG", "NH", "NI", "NJ", "NK", "NL", "NM", "NN", "NO", "NP", "NQ", "NR", "NS", "NT", "NU", "NV", "NW", "NX", "NY", "NZ", "OA", "OB", "OC", "OD", "OE", "OF", "OG", "OH", "OI", "OJ", "OK", "OL", "OM", "ON", "OO", "OP", "OQ", "OR", "OS", "OT", "OU", "OV", "OW", "OX", "OY", "OZ", "PA", "PB", "PC", "PD", "PE", "PF", "PG", "PH", "PI", "PJ", "PK", "PL", "PM", "PN", "PO", "PP", "PQ", "PR", "PS", "PT", "PU", "PV", "PW", "PX", "PY", "PZ", "QA", "QB", "QC", "QD", "QE", "QF", "QG", "QH", "QI", "QJ", "QK", "QL", "QM", "QN", "QO", "QP", "QQ", "QR", "QS", "QT", "QU", "QV", "QW", "QX", "QY", "QZ", "RA", "RB", "RC", "RD", "RE", "RF", "RG", "RH", "RI", "RJ", "RK", "RL", "RM", "RN", "RO", "RP", "RQ", "RR", "RS", "RT", "RU", "RV", "RW", "RX", "RY", "RZ", "SA", "SB", "SC", "SD", "SE", "SF", "SG", "SH", "SI", "SJ", "SK", "SL", "SM", "SN", "SO", "SP", "SQ", "SR", "SS", "ST", "SU", "SV", "SW", "SX", "SY", "SZ", "TA", "TB", "TC", "TD", "TE", "TF", "TG", "TH", "TI", "TJ", "TK", "TL", "TM", "TN", "TO", "TP", "TQ", "TR", "TS", "TT", "TU", "TV", "TW", "TX", "TY", "TZ", "UA", "UB", "UC", "UD", "UE", "UF", "UG", "UH", "UI", "UJ", "UK", "UL", "UM", "UN", "UO", "UP", "UQ", "UR", "US", "UT", "UU", "UV", "UW", "UX", "UY", "UZ", "VA", "VB", "VC", "VD", "VE", "VF", "VG", "VH", "VI", "VJ", "VK", "VL", "VM", "VN", "VO", "VP", "VQ", "VR", "VS", "VT", "VU", "VV", "VW", "VX", "VY", "VZ", "WA", "WB", "WC", "WD", "WE", "WF", "WG", "WH", "WI", "WJ", "WK", "WL", "WM", "WN", "WO", "WP", "WQ", "WR", "WS", "WT", "WU", "WV", "WW", "WX", "WY", "WZ", "XA", "XB", "XC", "XD", "XE", "XF", "XG", "XH", "XI", "XJ", "XK", "XL", "XM", "XN", "XO", "XP", "XQ", "XR", "XS", "XT", "XU", "XV", "XW", "XX", "XY", "XZ", "YA", "YB", "YC", "YD", "YE", "YF", "YG", "YH", "YI", "YJ", "YK", "YL", "YM", "YN", "YO", "YP", "YQ", "YR", "YS", "YT", "YU", "YV", "YW", "YX", "YY", "YZ", "ZA", "ZB", "ZC", "ZD", "ZE", "ZF", "ZG", "ZH", "ZI", "ZJ", "ZK", "ZL", "ZM", "ZN", "ZO", "ZP", "ZQ", "ZR", "ZS", "ZT", "ZU", "ZV", "ZW", "ZX", "ZY", "ZZ".

U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director,
SALT LAKE CITY, UTAH.

ANNUAL SUMMARY No. 8.

GENERAL SUMMARY.

The weather during the year presented some unusual features distinguished it from former years. Each season in turn was characterized by some distinctive incident or circumstance that rendered it extraordinary. The winter was notable for its high temperatures and abundant sunshine, the abnormal warmth, however, being broken by two cold spells, the latter one of marked severity; the late spring was abnormally cool and damp; the late summer extraordinary for the number and violence of its thunderstorms; and finally, the late autumn for its long-continued period of cloudless skies. While there were frequent storms during December and January, yet the fall of snow was insufficient for all portions of the section. Not until the heavy snowfall occurred early in February were the fears for the coming season's water supply fully dispelled. The precipitation during that period was unusually heavy, especially over the southern portion of the section, where at many stations the amount was the greatest on record. In view of the dry condition of the soil prior to this, the benefits derived were of incalculable value to the farming interests.

Two severe cold spells marked the winter, the first rather moderate, occurred during the latter part of December; and the second, of unusual severity, followed the heavy snow storm during the fore part of February. During the latter period temperatures in the more elevated districts of the section fell to over 30 degrees below zero. Cloudiness was not so prevalent during the winter, there was decidedly more than the usual winter sunshine, an important factor in producing the abnormally high winter maximum temperatures.

March was an ideal month, rather too balmy, as the frost came in ahead of the ground ahead of the season. During the last decade heavy rain and moist snow occurred which was of great benefit in thoroughly soaking the ground. Particularly opportune at this time was the cool wave that occurred, as it averted the rapid melting of snow in the mountains, and tended to conserve it for use later in the growing season when the usual summer drought and heat rendered irrigation almost indispensable. April was characteristic—changeable and changeable with frequent thunderstorms. One of these, striking near the city of Ogden on the 23rd, was of such violence as to deserve special mention. The roofs of several large warehouses were blown off and many smaller buildings completely destroyed. This was followed on the 26th by another storm of even greater violence in the same vicinity. During this storm lightning struck the electric light plant and caused considerable damage. A hail that attended this disturbance also damaged crops locally to great extent. During this month considerable moist snow fell and high winds were frequent. May was abnormally cool and damp. With a single exception in each case, the temperature was the lowest and the precipitation the greatest of record for this month since the establishment of the Climate and Crop Service. During the coldest period of this month, which occurred about the first of the first decade, frost and ice formed over the more elevated

districts, while even in the valleys the precipitation was mostly in the form of moist snow.

The early summer presented the characteristics common to that season. Rainfall during that period was below the normal, the prevailing dryness being accentuated by high, drying winds, and the supply of water in the creeks and reservoirs began to fall off rapidly. Fortunately, however, a series of general storms occurred about the middle of July that replenished the failing water supply and soaked the parched soil thoroughly. The striking feature of the latter part of the summer was the number and violence of the thunderstorms, the accompanying winds being often of a damaging velocity and the electrical features very spectacular. The amount of precipitation was, however, comparatively small. The first frosts of the advancing season occurred toward the close of the summer in the more elevated districts of the state, but the resulting damage was inappreciable.

Two cold spells of unusual severity occurred early in the autumn, and freezing temperatures and killing frosts occurred much earlier than usual. Toward the latter part of September, a severe rain and snow storm passed over the section, and before it had spent its energy the soil was thoroughly soaked and the ditches and reservoirs flooded. Until near the close of autumn, dry and abnormally warm weather prevailed accompanied by cloudless skies. The last decade of November witnessed a decided change in these conditions. About that time severe storms developed, producing general and heavy precipitation that began as rain but soon changed to snow under the influence of the steadily falling temperature.

The clear and cold weather that succeeded the stormy period continued throughout December. The fore part of the month was clear and the air movement very light, causing considerable haze and numerous fogs. Cloudy and stormy weather with considerable precipitation succeeded the dry spell about the beginning of the second decade. Moderate to heavy snows were general throughout the section, and at the close of the year the valleys were covered with a layer of snow several inches deep, while in the mountains the depth in many cases amounted to several feet.

REVIEW OF THE CROP SEASON OF 1905.

The growing season of 1905, despite the many vicissitudes that beset it, was generally satisfactory. The persistent drought of the previous autumn had given rise to gloomy forebodings, and these seemed to be well grounded, as the mountains were bare of snow and the soil very dry. But the heavy storm of February caused beneficial precipitation over the section and all fear of crop failure was dispelled. For some time winter grain did not germinate in many localities, owing to the extreme dryness; while in other sections its condition was not satisfactory. Absence of snow covering was also unfavorable as it deprived the young grain of that protecting blanket so necessary during the rigorous season. As the winter advanced, the drought was relieved in a measure, and this increase in the moisture caused a steady improvement in vegetation. The opening of the growing season found farming operations well advanced. Spring grain was nearly all sown by the end of March and some of it coming up well. The acreage had been greatly increased and the cereal was generally in promising condition. The weather during the spring was, on the whole, favorable for the development of grain; precipitation came at favorable intervals and by the end of spring the winter grain was generally coming in head, followed a month later by that of the spring-sown. June was the decisive month in the condition of the grain crop of the year. Its prevailing warm and dry weather was of great benefit to irrigated farms, as the bright sunshine matured the crop rapidly, and when the soil became too dry, sufficient water was supplied for the proper moisture. The absence of timely rains caused a shrinkage of the berry from which arid-land wheat did not recover in some localities. Toward the close of the month the harvesting of winter wheat had begun and at the end of July the cutting of spring grain commenced. This work was continued the

following month and at the close of the summer was about completed. Thrashing was under way during this whole period, but was not completed until the autumn was well advanced. The results of the grain growing season can be summarized as follows: Arid-land wheat was below the average both in quality and quantity; spring grain was fully up to the normal amount, excepting in some few localities where the crop was injured by insects and rust.

The mildness of the winter allowed the range to be used much longer than usual, and early in the growing season afforded ample sustenance to stock. Sheep shearing began early, and by the close of April was practically completed with the clip generally satisfactory.

The yield of fruit was, on the whole, below the average, especially peaches and apricots.

Sugar beets, where properly irrigated, developed normally. The crop was nearly all up by the close of May, and during the following month the work of thinning was completed. Digging became general during September, but the autumn was well advanced before the crop was harvested. Yields were generally satisfactory both in quality and quantity where sufficient water for irrigation could be obtained. In localities, however, blight and insects caused considerable damage.

The yield of the first and second crops of lucerne was about the average; the third crop was short, and lucerne seed was nearly a failure. The first and much of the second crop were matured before the effects of the summer dryness and heat began to be felt.

Gardens, where properly watered, yielded well, though insects damaged the crop considerably. Potatoes yielded satisfactorily throughout the growing season, excepting near the close when a severe freeze damaged the crop to a great extent.

Corn had a normal growth, tasseled toward the close of July and matured toward the close of the following month. While yields were satisfactory, the ears were considerably marred by worms.

In view of the circumstances that marked its inception and the many difficulties constantly arising during the growing season, the crop yield compares very favorably with that of former years, and many reports stated that it was one of the best ever experienced in Utah.

The following extracts from the monthly Climate and Crop Bulletins give the condition of crops for each month:

January—The general weather conditions had an exhilarating effect on the life of winter grain, though the absence of snow in some localities, to protect the green grain from impending freezes, was regarded as deleterious. The open season produced some growth in many grain fields, and on the range. Valleys bare of snow were thawed out so completely that a great deal of plowing was done. The range still afforded a safe retreat for hundreds of sheep, cattle and horses, all of which were in good condition, with an abundance of feed.

February—The heavy precipitation in the form of rain and moist snow that fell during the early days of the month exercised a most beneficial effect in soaking the ground thoroughly, besides covering it with a layer of moist snow. Owing to the prevailing high temperature, the snow-covering rapidly disappeared from many of the valleys and lowlands. For this reason some fears were expressed that winter grain and early fruit might have suffered some damage from the severe freeze that occurred during the middle of the month. However, winter grain withstood the damaging effects of that short period of extreme cold. Some fruit was reported winter-killed, the principal damage being confined to peaches. The unseasonably mild weather of the last decade of the month had dried the ground in some localities and placed it in splendid condition to work; and many farmers were taking advantage of this favorable season to begin the spring work of plowing and sowing. The range was generally in good condition, and in many localities in the middle and southern portions of the section

was affording ample sustenance to stock, which had wintered well and was in good condition.

March—During the first two weeks of March the farming population throughout the state was in the fields preparing the ground and sowing spring grain. Outdoor work was exceptionally well advanced when the laborers were driven from the fields during the latter part of the month by the soaking rains and snows. Nearly all of the spring grain was sown, with greatly increased acreage and some of it was coming up well. Heavy snowfall protected the green grain from the few cold nights. Winter wheat, also, was in flourishing condition. Horticulturists reported the fruit crop safe, except some varieties of peaches and apricots. The range responded splendidly to the sudden opening of the soil and the timely precipitation following, and had already brought many herds out for pasturage. Stock was thrifty, and extensive preparations were being made for early sheep shearing.

April—The many wet periods that occurred during the month had the effect of seriously retarding all farm work, and by the close of the month seeding was still in progress, though nearing completion. However, the ground was thoroughly soaked and the precipitation was of marked benefit. Notwithstanding the cloudiness, all crops made rapid growth. Fall and early sown spring grain was coming up well. Alfalfa was in various stages of growth, according to locality. From one place in the extreme southern portion of the section, it was reported as blooming and being cut for hay. Sugar beets were in fine condition, and seeding was making as rapid advancement as the wet condition of the soil allowed. Fruit was backward, though generally in good condition, with the exception of peaches and apricots, which suffered some damage from the abnormally cold weather in February. The frequent storms during the month exercised a particularly beneficial effect on the range, and at the close of the month was affording ample sustenance to stock, which was in thriving condition. Sheep were nearly all driven to the summer range and shearing was practically completed; the wool clip was excellent.

May—The inclement weather of the first half of the month stopped farm work generally, and delayed crop cultivation until a time when this work was sorely needed. The latter portion of the month was much warmer and more settled, and farm work was vigorously pushed and was generally brought up to date. Alfalfa made a luxuriant growth during the last two weeks of the month, and in the southern portion of Utah this crop was being harvested. The yields were reported fair to good. Grain was in fine condition, and winter and fall grain were generally coming in head. The favorable farming weather after the storms of the first half of May permitted the planting of a great acreage of corn, potatoes and beets. The crops had all sprouted well, and in scattered localities were coming up. Beets, in fact, were nearly all up, over the state. The outlook for fruit was quite good, with the exception of peaches. Vine and bush fruit were, as usual, abundant, and nearing the ripening stage. The scattered frosts of the month were not specially deleterious, the fruit being too far advanced, and other crops being backward. The summer range was fine and fresh, being rushed forward by the warm sunshine following the rainy period, and stock there was in fine condition. The snow-fed streams were generally well filled, and many were rising, promising abundant water for future needs.

June—Arid land crops suffered considerably from the drought, but where sufficient water was available for irrigation the warm, abundant sunshine matured the crops rapidly, and toward the close of the month fall and early-sown spring grain were ripening fast, and harvesting had begun. Despite the depredations of chinch bugs, which had made their appearance in different parts of the section, the yield from properly irrigated crops was up to the average, both in quality and quantity. On arid farms and some other sections, especially in the southern portion, where the supply of water

already fallen below the demand, a deterioration in the quality of the growing cereals had become evident. The first crop of corn was practically gathered in good condition, with yields generally up to the average. The harvesting of this staple was considerably delayed by the high winds that prevailed at times. The second crop of alfalfa was making good advancement, and was being harvested over the southern counties. Sugar beet thinning progressed during the month, and by the close was completed; the yield was very good, and the crop made rapid growth. Gardens, where well watered, were in satisfactory condition, although insects were present in large numbers in localities. New potatoes and other early garden truck were being marketed in large quantities. It suffered in places from the high winds, which blew the young fruit from the trees; notwithstanding this unfavorable feature, apples and pears promised good yields. The range deteriorated to a marked degree toward the close of the month, due to the continued drought, and in some localities suffered complete ruin by forest fires. Stock, notwithstanding the poor condition of the range, was in good condition. The supply of irrigation water had begun to fail rapidly.

July—During the warm weather at the early part of the month watered crops made remarkable growth, being materially aided by the bright sunshine, which in turn caused a noticeable setback to arid crops by its withering effect. Many crops were injured by insects and insects, lucerne seed and sugar beets suffering considerably in scattered localities, though the beet crop generally stood the ravages of the pests, and was making an excellent showing. Haying was general throughout the month; both the first and second growths of lucerne were being cut, though the latter was demanding the most attention. In the southern portion of the state, toward the close of the month, the third crop of hay was making a fair start. Native hay was as abundant as usual, and alfalfa, too, was being gathered. Grain was rapidly ripened by the period of warm sunshine and clear skies, and as the month ended was being harvested extensively, and being thrashed, with yields about average. Corn improved after the rain that occurred about the middle of the month, and was tasseling at the close of the month, with quite good promise of heavy yields. Potatoes yielded well, and this staple was being gathered rapidly during the last decade. Tomatoes were considerably injured by drought. Peas were all taken care of during the month. Fruit was severely damaged by the high winds, which scattered vast amounts of unripe fruit on the ground. The principal loss in this respect was confined to apples, as peaches and apricots were ripening, and much of this fruit was saved. The ranges revived during the latter part of the month, and stock was doing quite well, notwithstanding the long drought. The supply of irrigation water was considerably depleted, and the reservoirs and supply creeks were generally lower than usual.

August—Owing to a depleted water supply, the work of irrigation was curtailed to some extent in many localities. In consequence, growing crops in such sections suffered somewhat for moisture. Where sufficiently watered, however, crops made good growth, and at the close of the month were rapidly maturing. The harvesting of grain continued, and at the close of the month was being completed, with thrashing under general headway. Yields were generally reported up to the average, excepting late-sown wheat, which was damaged in localities by rust, and in the southern localities by chinch bugs. Arid land wheat was, however, generally below the average, many correspondents reporting the grain considerably shrunken. The second crop of lucerne was gathered, and the third crop was maturing or being harvested. Beets were rapidly maturing, and by the close of the month were nearly ready for harvesting; the crop was generally in good condition, though drought and insects caused deterioration in localities. Corn made good advancement, and was generally in good condition, though

wormy in places. The range was very dry in many districts. Stock was generally in good condition.

September—The month's precipitation, coming at favorable long intervals, permitted considerable advancement in fall work. Grain was well taken care of generally, though locally some thrashing machines were still busy at the end of the month. Winter grain was being taken from the machines to the fields again for re-sowing in many sections, and the work of fall seeding was generally well advanced. The unusually good condition of the soil caused quite a rush of fall plowing, and a large acreage was turned. The late varieties of fruit, mostly apples and peaches, were being picked and boxed for the markets and for winter storage. Beet digging was becoming general when the heavy rains at the close of the month suspended this work. Potatoes, pumpkins, squashes and other minor crops were being gathered. The last crops of alfalfa were being gathered in scattered localities when the work was stopped and some of the crop damaged by the heavy rains on the 28th and 29th. The range had moisture and warmth throughout the month sufficient to make a splendid growth. Stock generally fared well, and was in good condition.

October—The prevailing fair weather during the month favored the advancement of farming operations. The work of plowing and seeding made rapid headway, and toward the close of the month was nearing completion, with early-sown wheat coming up in good condition. In some portions of the section not so well favored with moisture, the work of plowing was somewhat impeded. Thrashing was about completed, with yields very good. Beet digging was nearly completed, and the crop was about average. The cold spell about the middle of the month injured potatoes and apples. The crop of lucerne seed was very short. Ranges, though dry in localities, afforded ample sustenance to stock, which was generally in good condition. Cattle and sheep were being driven to the winter ranges.

November—During the pleasant weather of the first two decades of the month farming operations advanced rapidly, and fall seeding had been practically completed before the advent of the stormy period toward the close of the month. Considerable plowing for spring crops had also been done, the soft condition of the soil being especially favorable for this work. At the close of the month the ground was thoroughly saturated, besides being covered in the valleys with several inches of snow, while in the higher districts the depth amounted in places to several feet. Early wheat and rye were coming up well. An increase in the acreage sown to winter wheat was reported over the northern section. The last of the beet and potato crops were gathered during the month. The range was good, though generally covered with snow. Stock was reported in good condition.

December—Farming operations were pursued during the fore part of the month under favorable conditions of temperature. Plowing and seeding of fall grain proceeded to completion. The advent of the stormy period, with frequent snows, effectually stopped all further operations. The ground was covered with a layer of snow that remained on account of the uniformly low temperature and light winds. Owing to the protection afforded by snow, the condition of fall wheat at the close of the month was very good. Stock was also generally in good condition, although feeding was necessary in many localities.

Temperature—The mean temperature for the section was 48.2° or 0.2° below the normal. Over the northern and middle portions temperatures were 0.8° and 0.1° respectively, below the normal, while over the southern portion an excess of 0.5° was noted. The highest annual mean for any station was 59.4° at Hite; the lowest, 41.4° at Loa. The highest temperature recorded during the year was 112° at Thistle on July 11; the lowest, 35° below zero occurred at Woodruff on February 12. The annual range for the section was

accordingly 147°. The maximum temperatures of the year were generally recorded during July, while the minimum temperatures almost invariably occurred in the period from the 12th to the 14th of February.

Precipitation—The average precipitation for the section was 14.24 inches, or 2.06 inches above the normal. Excesses of 4.28 and 4.16 inches, respectively, occurred over the middle and southern portions, while the slight deficiency of 0.10 inch was noted over the northern portion. The greatest annual rainfall for any station was 27.66 inches at Ranch; the least, 6.57 at Indianola. There was an average of 59 days with .01 inch or more of precipitation.

Character of Day and Sunshine—There was an average of 188 clear, 98 partly cloudy, and 79 cloudy days. Determined from the automatic sunshine record, Salt Lake City had 66 per cent.; Modena, 77 per cent.; Grand Junction, Colo., 64 per cent.; and Pocatello, Idaho, 71 per cent of the possible amount of sunshine.

Wind—The prevailing direction of the wind was from the southwest. The total number of miles recorded by the anemometer at Salt Lake City was 50,089; at Modena, 90,827; at Grand Junction, Colo., 41,243; and at Pocatello, Idaho, 70,180. The maximum velocity at Salt Lake City was 47 miles from the west on May 17; at Modena, 55 miles from the southwest on May 1st; at Grand Junction, Colo., 32 miles from the southwest on May 8; and at Pocatello, Idaho, 46 miles from the southwest on October 7.

Relative Humidity—The mean annual relative humidity at Salt Lake City was 50 per cent., the lowest observed reading being 10 per cent on June 25 and September 16th; at Modena, 52 per cent., the lowest observed reading being 3 per cent. on July 4th; at Grand Junction, Colo., 55 per cent., the lowest observed reading being 7 per cent. on June 23; at Pocatello, Idaho, 55 per cent., the lowest observed reading being 2 per cent. on September 22nd.

Corrections to Annual Summary of 1904—Logan, mean temperature for May, recorded 54.6°, should be 56.2°; Logan annual temperature recorded 48.8°, should be 48.9°; Ogden No. 1, mean temperature for November, recorded 42.0°, should be 42.2°; Park City, mean temperature for May, recorded 58.8°, should be 52.5°; Promontory, mean temperature for April not recorded, should be 45.9°; Salt Lake City, mean temperature for March, recorded 40.7°, should be 40.8°; Salt Lake City, mean temperature for May, recorded 57.5°, should be 57.4°; Garrison, mean temperature for September, recorded 62.2°, should be 62.8°; Garrison, annual temperature, recorded 49.1°, should be 50.0°; Escalante, mean temperature for February not recorded, should be 36.4°; Escalante, mean temperature for March not recorded, should be 42.7°; Grover [near] mean temperature for April not recorded, should be 45.7°; Kanab, mean temperature for January recorded 42.9°, should be blank; Modena, mean temperature for March, recorded 40.8°, should be 40.9°; Tropic, mean temperature for February, recorded 31.0°, should be 33.6°; Park City, total precipitation for September not recorded, should be 0.48; Promontory, total precipitation for April not recorded, should be 0.00; Green River, total precipitation for September not recorded, should be 0.26; Payson, total precipitation for September not recorded, should be 0.13; Wellington, total precipitation for June recorded 1.16, should be blank; Beaver, total precipitation for July not recorded, should

be 1.20; Escalante, total precipitation for February not recorded should be 0.38; Escalante, total precipitation for March not recorded should be 1.55; Grover, [near] total precipitation for April not recorded, should be 1.65; La Sal, total precipitation for June recorded 0.19, should be blank; Loa, total precipitation for October recorded 0.00, should be blank; Plateau, total precipitation for December, recorded 0.60, should be 0.87; Plateau, annual precipitation, recorded 15.87, should be 16.14.

Index to special articles published in the monthly and annual reports of the Utah Section, Climate and Crop Service, from the time of issue of first report in November, 1898, to and including the year 1905.

Subject.	Report.
Aurora borealis	October, 1903.
Earthquake in Utah and Juab counties.....	August, 1900.
Earthquake in Utah.....	November, 1901. November, 1902.
Earthquake at Marysville.....	December, 1901.
Earthquake in Garfield county.....	May, 1904.
Flood at Manti.....	July, 1899.
Floods, damage and deaths by.....	August, 1901.
Fog, prevalence of, in winter.....	November, 1903.
Fog, dense, at Salt Lake City.....	January, 1902.
Frost warnings and the fruit crop.....	January, 1901. February, 1902.
Gage at Great Salt Lake.....	June, 1903.
Henefer, phenological observations at.....	January, 1905.
Irrigation congress at Ogden.....	September, 1903.
Levan, phenological observations at.....	March, 1905.
Meteor of unusual brilliancy.....	January, 1902.
Ogden, storm at.....	April, 1905.
Phenological observations at Henefer.....	January, 1905.
Phenological observations at Levan.....	March, 1905.
Snow in mountains.....	December, 1900. January, 1901. February, 1901. December, 1901. February, 1902. December, 1902. February, 1903. December, 1903. February, 1904. December, 1904. February, 1905. December, 1905.
Salt Lake City, dense fog at.....	January, 1902.
Salt Lake City, thunderstorm at.....	August, 1899. July, 1900.
Thunderstorms and damage by lightning.....	August, 1901.
Thunderstorm at Salt Lake City.....	August, 1899. July, 1900.
Unusual excess of temperature and deficiency of precipitation	June, 1900.
West Indies, climate and crop work, in.....	June, 1899.

CLIMATOLOGICAL DATA FOR YEAR 1905

		Temperature				Precipitation, in inches												Averages							
		in degrees Fahrenheit																							
Stations.	Counties.	Elevat. in feet	Length of record, years.	Annual means.	Highest.	Date.	Lowest.	Time.	Length of record, years.	Total for year.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly.	W. & S. W.	
NORTHERN.																									
Alpine	Utah	1,900							9	22.26	1.71	Sep. 15													
Alta	Salt Lake	9,265							4	8.00	Mar. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15	Aug. 15
Blacksmith's Fork	Cassia								1	2.23	May 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11	Dec. 11
Castle Rock	Summit	6,244							1	10.98	Apr. 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15	July 15
Chama	Boxelder	4,210	35	50.12	105	Aug. 7	-1	*Feb. 12	10	9.13	1.72	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Constance, Wyo.	Uintah	6,959	10	40.12	88	Aug. 27	-38	*Feb. 12	10	11.30	2.85	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Granum	Davis	1,265	5	49.6	95	July 27	-2	*Feb. 12	10	19.13	1.48	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Fort Duchesne	Uinta	5,000	17	45.0	107	July 12	-21	*Feb. 13	10	12.13	1.52	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15
Heber	Wasatch	5,666	12	43.8	96	July 11	-23	*Feb. 11	10	12.91	2.12	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15
Hotchkiss	Summit	5,204	6	43.9	95	Aug. 8	-5	*Feb. 12	10	14.30	2.15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15
Idaho Falls	Weber	5,100							10	16.94	2.81	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Jefferson	Boxelder	4,230	27	41.7	103	Aug. 3	-1	*Feb. 12	10	12.51	2.22	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Kamiah	Cache	4,507	14	48.7	99	*July 26	-15	*Feb. 12	10	11.4	3.05	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Ketchikan	Boxelder	4,504	1		98	July 10																			
Libby	Summit																								
Leadville	Rich	6,220	6	42.1	90	*July 11	-22	*Feb. 12	10	17.87	4.15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15
Malheur	Cache	4,848																							
Morgan	Morgan	5,080	2	41.3	93	July 26	-28	*Feb. 12	10	13.81	2.13	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15
Oriskany	Cassia	4,191	12	47.8	97	Aug. 8	-11	*Feb. 12	10	13.70	2.45	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Palmer No. 1	Weber	4,310	4	50.5	98	July 21	-9	*Feb. 11	10	19.25	1.63	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Palmer No. 2	Weber	4,310	35	51.1	99	*July 12	-3	*Feb. 12	10	17.00	2.93	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Palmer City	Summit	7,000																							
Peacerville, Idaho	Bannock	4,483	5	47.4	96	Aug. 8	-20	*Dec. 27	10	10.20	2.09	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Pomona	Boxelder	4,913	35																						
Redmond	Rich	6,442																							
Salmon	Salt Lake		2	52.2	96	July 12	-0	*Feb. 13	10	10.78	2.22	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15
Shoshone	Salt Lake	4,366	31	51.6	97	July 27	-1	*Feb. 12	10	14.23	2.74	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Starvation	Boxelder	4,360	15	45.2	98	July 23	-12	*Feb. 12	10	12.01	2.30	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Thermopylae	Wasatch																								
Tooele	Tooele	4,900	9	50.2	97	July 26	-9	*Feb. 12	10	14.94	3.04	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15	Sep. 15
Trinidad	Uinta	5,050	10		95	July 18	-24	*Feb. 13	10	11.85	1.85	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Trinidad, Idaho	Oneida	4,160	7	15.6	100	Aug. 8	-21	*Feb. 12	10	12.66	2.31	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15	Mar. 15
Trinidad	Rich	6,500	8		90	Aug. 8	-35	*Feb. 12	10	2.35	2.35	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15	May 15
Averages				47.5						14.68							36.3	63	200	76	89				
MIDDLE.																									
Black Rock	Millard	4,872	5		98	July 11	-26	*Feb. 13	10	2.57	Sep. T	June	130.9	154	1132	191	150								
Black Rock	Juab	5,500	3		95	Aug. 21	-34	*Feb. 13	10	2.55	Nov. 00	June	120.5	129	1189	189	134								
Black Rock	Emery	4,385	13		100	July 26	-15	*Feb. 13	10	2.40	Feb. 00	June	120.5	129	1189	189	134								
Black Rock	Grand	6,210								2.82	Feb. 58	Aug. 12	7	145	199	47	119	D. & S.							
Black Rock	Carbon	4,541	11	48.4	100	July 10	-13	*Feb. 13	10	9.76	Sep. 00	June	128.0	53	199	47	119	D. & S.							
Black Rock	Emery	6,260	5		79	Aug. 7	-20	*Feb. 13	10	3.01	Feb. 00	June	135.2	124	1104	157	173	S. W.							
Black Rock	Millard	5,100	15	52.8	106	July 26	-3	*Feb. 12	10	16.16	Sep. T	June	126	66											
Black Rock	Millard									8.2	Nov. 00	June	118.7	29	1206	172	181								
Black Rock	Tooele	5,277	5	48.2	99	July 16	-22	*Feb. 12	10	13.61	Mar. T	June	147.5	58	217	83	65	S. W.							
Black Rock	Mesa	4,678	14	51.8	98	Aug. 22	-14	*Feb. 14	10	10.27	May 01	June	135.9	73	180	97	88	D. W.							
Black Rock	Emery	4,080	8		104	July 7	-14	*Jan. 15	10	2.30	Nov. T	July	17.0	115	1162	140	191								
Black Rock	Tooele		3	43.8	98	July 6	-22	*Dec. 23	10	10.01	Aug. 00	June	133.5	35	152	175	38								
Black Rock	Sanpete	5,932								6.57	Mar. T	June	115	21											
Black Rock	Juab	5,010	15	46.9	96	July 11	-15	*Feb. 13	10	16.24	Sep. 12	Oct. 45	3	74	218	71	76	S. W.							
Black Rock	Sanpete	5,575	11	46.0	99	Aug. 9	-21	*Feb. 13	10	17.93	Feb. T	July	140.5	59	156	193	135								
Black Rock	Utah	4,650	4	50.0	100	July 11	-6	*Feb. 13	10	8.70	Sep. 09	Aug. 19	5	71	1167	127	161								
Black Rock	Sanpete	5,839	13		97	July 16	-16	*Feb. 12	10	1.93	Feb. 00	June	131.0	139	1169	123	117								
Black Rock	Juab	6,059	1																						

MONTHLY AND ANNUAL MEAN TEMPERATURES FOR THE YEAR 1905, WITH DEPARTURES FROM THE NORMAL

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Year.
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	
Northern.																									
Corinne	29.6	+ 4.9	23.1	+ 3.6	41.0	+ 4.2	51.4	+ 1.0	54.6	+ 6.6	66.6	+ 4.6	77.1	+ 2.2	75.1	+ 0.6	63.8	+ 1.6	45.6	+ 6.0	39.6	+ 2.2	22.2	+ 6.7	50.0
Evanston, Wyo.	24.6	+ 1.0	21.5	+ 0.9	34.6	+ 6.3	39.8	+ 1.6	44.4	+ 1.9	54.6	+ 0.0	61.0	+ 0.7	62.0	+ 0.5	53.6	+ 0.6	37.6	+ 4.3	32.6	+ 0.3	16.6	+ 3.2	40.0
Farmington	31.4	+ 3.0	24.2	+ 4.1	41.1	+ 5.8	49.5	+ 1.9	53.8	+ 4.7	65.5	+ 0.6	72.3	+ 0.1	71.4	+ 0.3	60.9	+ 1.2	45.0	+ 6.2	40.6	+ 1.3	26.8	+ 4.3	48.0
Ft. Duchesne.	15.8	+ 4.4	19.3	+ 0.1	42.1	+ 6.9	48.0	+ 0.1	53.2	+ 3.9	64.8	+ 0.9	72.4	+ 1.4	71.4	+ 1.8	61.5	+ 0.7	44.2	+ 2.6	34.8	+ 1.2	12.1	+ 7.0	40.0
Heber	11.1	+ 0.2	24.0	+ 1.7	39.0	+ 6.2	46.2	+ 2.3	50.5	+ 2.3	60.2	+ 0.7	66.1	+ 0.6	66.2	+ 1.4	57.1	+ 2.1	42.2	+ 2.9	33.2	+ 0.2	17.0	+ 5.7	40.0
Henefer	11.1	+ 2.0	27.0	+ 3.7	39.7	+ 5.8	45.4	+ 2.2	49.4	+ 2.5	58.3	+ 1.3	68.2	+ 2.1	65.6	+ 1.6	56.8	+ 3.6	41.2	+ 4.1	35.1	+ 0.3	16.3	+ 7.9	40.0
Kelton	11.1	+ 1.7	29.4	+ 0.4	40.4	+ 0.4	47.2	+ 2.8	51.6	+ 8.9	63.8	+ 6.3	71.0	+ 6.8	67.8	+ 7.3	52.8	+ 8.7	44.2	+ 3.5	27.8	+ 6.8	16.0	+ 12.3	40.0
Logan	11.1	+ 3.5	26.4	+ 1.3	42.2	+ 8.0	51.5	+ 4.7	54.4	+ 0.8	65.2	+ 1.6	74.0	+ 3.1	73.1	+ 2.7	64.4	+ 3.4	45.8	+ 4.6	43.3	+ 2.5	19.3	+ 6.5	40.0
Lucin	11.1	+ 3.5	26.4	+ 1.3	42.2	+ 8.0	51.5	+ 4.7	54.4	+ 0.8	65.2	+ 1.6	74.0	+ 3.1	73.1	+ 2.7	64.4	+ 3.4	45.8	+ 4.6	43.3	+ 2.5	19.3	+ 6.5	40.0
Meadowville	25.7	+ 3.0	20.7	+ 1.1	34.7	+ 7.6	42.8	+ 2.5	46.3	+ 2.6	56.8	+ 0.0	63.3	+ 1.1	65.4	+ 0.6	56.4	+ 3.0	38.5	+ 5.5	33.1	+ 1.7	19.4	+ 6.5	40.0
Morgan	26.3	+ 2.8	20.8	+ 1.6	39.4	+ 5.2	45.8	+ 3.1	49.4	+ 3.7	58.8	+ 3.6	66.2	+ 0.9	67.0	+ 0.6	57.7	+ 2.3	42.1	+ 4.6	35.9	+ 1.1	15.8	+ 3.0	40.0
Oakley, Idaho	31.2	+ 1.7	29.1	+ 1.6	42.8	+ 5.2	49.6	+ 3.1	50.4	+ 3.7	59.7	+ 3.6	69.8	+ 0.9	70.4	+ 0.6	61.3	+ 2.3	44.6	+ 4.6	37.8	+ 1.1	26.6	+ 3.0	40.0
Ogden No. 1	30.4	+ 3.2	32.5	+ 0.6	44.0	+ 3.6	51.4	+ 1.7	55.4	+ 1.7	67.9	+ 0.8	75.7	+ 1.0	74.3	+ 0.4	63.9	+ 1.8	45.8	+ 7.2	40.8	+ 0.6	24.2	+ 2.3	40.0
Ogden No. 2†	31.7	+ 3.2	32.2	+ 0.6	44.8	+ 3.6	50.7	+ 1.7	52.4	+ 1.7	65.6	+ 3.7	72.1	+ 1.8	72.4	+ 2.8	62.2	+ 1.8	44.6	+ 3.4	37.2	+ 2.2	23.2	+ 2.8	40.0
Park City	18.8	+ 9.7	26.0	+ 3.0	41.7	+ 7.4	48.2	+ 1.4	50.8	+ 3.6	61.5	+ 0.5	71.6	+ 1.1	71.6	+ 1.1	67.6	+ 1.1	48.3	+ 4.0	41.3	+ 2.9	25.3	+ 0.5	40.0
Pocatello, Idaho	27.4	+ 5.4	29.0	+ 1.0	44.2	+ 5.8	51.7	+ 2.2	54.4	+ 3.4	67.6	+ 0.6	76.9	+ 1.4	75.8	+ 1.2	65.3	+ 1.0	48.3	+ 4.0	41.8	+ 2.9	26.2	+ 0.5	40.0
Promontory†	30.5	+ 3.2	34.2	+ 1.3	43.8	+ 2.2	51.7	+ 2.2	54.4	+ 3.4	67.6	+ 0.6	76.9	+ 1.4	75.8	+ 1.2	65.3	+ 1.0	48.3	+ 4.0	41.8	+ 2.9	26.2	+ 0.5	40.0
Saltair Beach	33.2	+ 5.3	34.2	+ 1.3	43.8	+ 2.2	51.7	+ 2.2	54.4	+ 3.4	67.6	+ 0.6	76.9	+ 1.4	75.8	+ 1.2	65.3	+ 1.0	48.3	+ 4.0	41.8	+ 2.9	26.2	+ 0.5	40.0
Salt Lake City	27.1	+ 2.9	29.8	+ 3.7	39.6	+ 4.0	45.7	+ 0.5	48.6	+ 7.1	60.0	+ 1.7	69.6	+ 0.7	68.4	+ 0.5	58.4	+ 0.1	41.0	+ 7.1	33.4	+ 2.8	20.6	+ 5.3	40.0
Snowville	32.3	+ 3.1	32.0	+ 0.1	43.6	+ 4.7	49.8	+ 1.3	52.9	+ 3.2	66.0	+ 0.9	75.2	+ 1.7	74.4	+ 0.9	64.6	+ 0.6	47.0	+ 3.5	39.0	+ 1.3	25.7	+ 4.4	40.0
Tooele	20.8	+ 2.1	40.5	+ 5.5	47.4	+ 1.1	52.9	+ 3.2	68.0	+ 1.1	72.6	+ 1.2	71.9	+ 2.0	61.0	+ 1.0	41.3	+ 7.1	32.4	+ 2.8	12.2	+ 6.6	4.6	+ 4.0	40.0
Vernal (near).	25.8	+ 0.5	24.6	+ 1.2	41.4	+ 4.8	47.4	+ 0.7	51.0	+ 2.3	60.6	+ 1.1	65.9	+ 1.3	69.6	+ 2.1	59.6	+ 1.7	40.9	+ 5.3	37.8	+ 1.1	19.4	+ 4.5	40.0
Weston, Idaho	26.7	+ 10.4	18.8	+ 1.0	35.0	+ 7.3	41.5	+ 2.5	46.8	+ 0.5	55.0	+ 0.7	61.8	+ 0.0	59.2	+ 1.3	51.1	+ 0.3	40.9	+ 5.3	37.8	+ 1.1	19.4	+ 4.5	40.0
Woodruff	26.7	+ 10.4	18.8	+ 1.0	35.0	+ 7.3	41.5	+ 2.5	46.8	+ 0.5	55.0	+ 0.7	61.8	+ 0.0	59.2	+ 1.3	51.1	+ 0.3	40.9	+ 5.3	37.8	+ 1.1	19.4	+ 4.5	40.0
Middle.																									
Black Rock	28.2	+ 1.2	32.3	+ 3.6	42.4	+ 3.7	49.0	+ 1.5	53.2	+ 3.2	64.5	+ 0.3	69.9	+ 1.1	70.6	+ 1.8	59.8	+ 2.1	44.8	+ 3.8	35.0	+ 2.0	20.2	+ 4.4	40.0
Callao	18.4	+ 8.1	19.6	+ 8.0	38.2	+ 0.4	45.7	+ 0.4	48.8	+ 5.7	61.2	+ 3.4	65.4	+ 3.3	66.8	+ 0.9	50.6	+ 2.2	41.3	+ 7.0	35.0	+ 2.0	20.2	+ 4.4	40.0
Castle Dale	18.7	+ 8.1	19.6	+ 8.0	38.2	+ 0.4	45.7	+ 0.4	48.8	+ 5.7	61.2	+ 3.4	65.4	+ 3.3	66.8	+ 0.9	50.6	+ 2.2	41.3	+ 7.0	35.0	+ 2.0	20.2	+ 4.4	40.0
Cisco	26.8	+ 0.2	33.0	+ 3.5	45.4	+ 3.7	52.7	+ 0.4	59.6	+ 2.9	71.1	+ 0.9	77.6	+ 2.4	74.9	+ 2.6	66.6	+ 0.3	45.0	+ 7.8	40.6	+ 1.5	21.0	+ 4.4	40.0
Deseret	24.2	+ 3.0	25.6	+ 2.9	36.4	+ 2.1	41.0	+ 2.7	45.3	+ 6.0	57.4	+ 1.7	59.4	+ 4.8	62.3	+ 3.1	50.7	+ 0.5	44.9	+ 4.6	37.0	+ 0.4	21.0	+ 4.4	40.0
Emery	31.2	+ 6.2	36.4	+ 4.5	45.4	+ 5.3	51.2	+ 2.8	55.3	+ 2.5	69.6	+ 1.6	76.6	+ 1.7	76.6	+ 2.1	66.1	+ 0.9	50.9	+ 1.5	43.4	+ 1.9	27.3	+ 2.4	40.0
Fillmore	30.8	+ 3.2	31.2	+ 1.6	41.2	+ 4.8	47.8	+ 1.5	50.0	+ 5.4	64.2	+ 0.2	74.7	+ 2.0	73.9	+ 1.3	62.3	+ 1.1	44.8	+ 5.8	37.4	+ 2.7	21.0	+ 8.4	40.0
Garrison	30.1	+ 2.5	31.0	+ 1.6	41.2	+ 4.8	47.8	+ 1.5	50.0	+ 5.4	64.2	+ 0.2	74.7	+ 2.0	73.9	+ 1.3	62.3	+ 1.1	44.8	+ 5.8	37.4	+ 2.7	21.0	+ 8.4	40.0
Government Creek	34.0	+ 3.0	29.7	+ 1.6	46.2	+ 3.4	53.0	+ 0.2	57.6	+ 4.0	72.9	+ 1.1	76.8	+ 1.0	77.2	+ 1.6	67.2	+ 0.0	49.1	+ 3.7	42.0	+ 1.9	15.8	+ 2.0	40.0
Grand Junc't, Colo.	27.6	+ 0.6	33.4	+ 3.3	48.4	+ 1.5	55.6	+ 2.5	56.6	+ 2.5	71.7	+ 2.5	77.2	+ 2.3	78.4	+ 1.4	69.4	+ 1.4	49.1	+ 3.7	44.6	+ 4.7	25.1	+ 0.2	40.0
Green River	26.9	+ 2.1	29.6	+ 2.3	41.5	+ 5.6	47.4	+ 1.1	50.5	+ 5.1	64.6	+ 0.4	71.9	+ 1.0	71.2	+ 0.9	60.3	+ 0.1	44.2	+ 3.3	36.6	+ 0.3	19.0	+ 6.3	40.0
Ibapah	26.0	+ 2.1	29.6	+ 2.3	41.5	+ 5.6	47.4	+ 1.1	50.5	+ 5.1	64.6	+ 0.4	71.9	+ 1.0	71.2	+ 0.9	60.3	+ 0.1	44.2	+ 3.3	36.6	+ 0.3	19.0	+ 6.3	40.0
Levan	24.8	+ 0.8	28.6	+ 1.4	41.2	+ 3.7	45.4	+ 2.4	49.9	+ 9.3	63.4	+ 3.1	68.4	+ 2.9	69.1	+ 1.2	58.8	+ 2.6	44.4	+ 5.5	36.6	+ 0.3	20.8	+ 5.0	40.0
Manti	30.3	+ 3.0	34.0	+ 4.1	46.9	+ 5.4	53.8	+ 2.5	57.6	+ 4.9	71.1	+ 1.1	74.6	+ 3.0	75.4	+ 0.8	65.8	+ 1.3	47.8	+ 3.4	41.2	+ 3.0	27.8	+ 3.2	40.0
Mt. Nebo	29.2	+ 1.4	30.1	+ 0.4	41.5	+ 2.1	47.4	+ 0.2	44.7	+ 10.7	65.5	+ 0.8	71.4	+ 0.7	74.5	+ 0.7	65.0	+ 3.0	45.0	+ 5.4	37.6	+ 1.9	22.6	+ 4.8	40.0
Mt. Pleasant	30.4	+ 3.8	34.9	+ 5.3	44.4	+ 5.0	51.4	+ 2.2	54.4	+ 3.6	66.0	+ 1.6	74.5	+ 0.7	74.5	+ 0.7	65.0	+ 3.0	45.0	+ 5.4	37.6	+ 1.9	22.6	+ 4.8	40.0
Oak City	29.4	+ 3.7	31.2	+ 2.2	45.0	+ 3.1	50.6	+ 4.2	51.9	+ 1.9	63.4	+ 1.1	67.4	+ 3.6	68.2	+ 1.1	59.4	+ 0.3	45.4	+ 2.2	35.4	+ 2.2	19.1	+ 6.9	40.0
Provo	29.4	+ 3.7	31.2	+ 2.2	45.0	+ 3.1	50.6	+ 4.2	51.9	+ 1.9	63.4	+ 1.1	67.4	+ 3.6	68.2	+ 1.1	59.4	+ 0.3	45.4	+ 2.2	35.4	+ 2.2	19.1	+ 6.9	40.0
Richfield	29.8	+ 3.4	32.6	+ 2.7	45.0	+ 3.1	50.6	+ 4.2	51.9	+ 1.9	63.4	+ 1.1	67.4	+ 3.6											

* Also on subsequent dates.

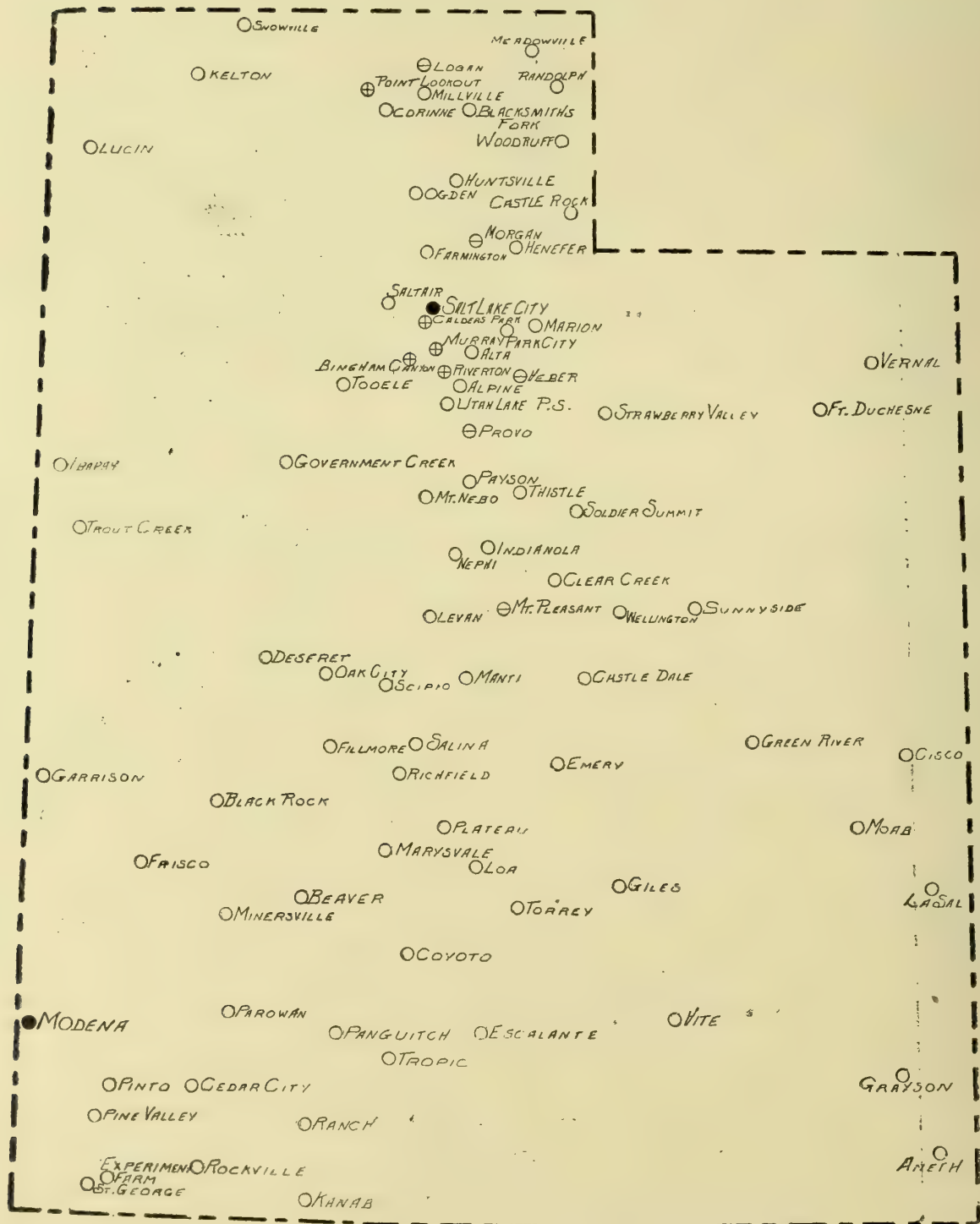
MONTHLY MINIMUM TEMPERATURES FOR THE YEAR 1905, WITH DATES.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
STATIONS	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
Northern.																								
Corinne	-1	12	-4	12	3	18	23	1	33	9	40	5	45	1	45	31	53	18	18	*18	2	28	-4	23
Evanston, Wyo.	-9	13	-38	12	7	22	15	*1	21	12	29	6	35	*2	36	*16	22	18	-3	31	-7	29	-15	23
Farmington	6	13	-2	12	13	31	20	1	33	10	40	6	45	*2	47	20	31	18	20	31	21	1	1	30
Pt. Duchesne	-22	13	24	13	19	9	21	4	28	3	32	18	41	*3	42	*16	26	22	16	*19	5	29	-11	30
Heber	-16	13	-23	*11	12	30	16	4	29	22	32	*6	35	3	34	18	24	19	10	*19	2	29	-14	30
Henefer	-13	13	-25	12	12	31	16	4	25	6	30	6	33	3	35	18	20	19	4	19	-11	29	-20	30
Ogden No. 1.	-3	1	-7	12	16	31	14	2	30	*12	36	18	45	2	38	30	29	19	10	31	4	29	3	30
Kelton†	-3	1	-7	12	16	31	14	2	30	*12	36	18	45	2	38	30	29	19	10	31	4	29	3	30
Logan	4	13	-15	12	17	31	23	1	30	10	39	4	41	15	44	31	34	29	19	18	11	*28	-1	31
Lucin	1	13	-22	12	9	31	15	1	23	4	32	*5	38	*3	41	16	25	18	9	31	0	29	-4	30
Meadowville	0	13	-22	12	9	31	15	1	23	4	32	*5	38	*3	41	16	25	18	9	31	0	29	-4	30
Morgan	-8	6	-28	12	11	28	19	1	27	*12	33	*6	36	4	38	18	24	19	4	19	-4	29	-18	30
Oakley, Idaho.	4	12	-14	*2	14	23	26	12	30	*3	35	28	42	2	40	16	29	18	12	18	14	22	-1	23
Ogden No. 2†	10	13	-9	*11	16	31	23	1	33	10	44	*5	52	*2	51	17	33	30	22	19	11	29	4	30
Park City	12	3	-3	12	28	*23	30	1	37	*3	52	17	62	*23	61	18	38	30	28	31	24	30	15	30
Pocatello, Idaho.	1	10	-20	12	22	31	22	1	31	10	39	18	47	3	48	18	30	18	17	31	13	22	3	11
Promontory†	-4	2	-8	12	13	31	30	4	34	10	49	18	54	3	58	19	40	30	24	20	18	29	7	30
Saltair Beach	9	13	0	13	13	31	30	4	34	10	49	18	54	3	58	19	40	30	24	20	18	29	7	30
Salt Lake City	14	12	-4	12	15	31	25	1	34	10	45	6	53	2	55	18	37	29	25	19	18	29	7	30
Snowville	-5	*5	-12	12	4	31	19	5	25	10	32	*6	39	*2	36	18	26	17	7	19	-5	29	-9	23
Strawberry Valley	10	13	-9	12	16	31	22	1	30	10	37	5	53	2	55	16	33	30	25	19	10	29	5	30
Tooele	10	13	-9	12	16	31	22	1	30	10	37	5	53	2	55	16	33	30	25	19	10	29	5	30
Vernal (near).	13	13	-24	13	15	28	20	11	31	*5	44	*10	48	3	48	31	34	30	16	18	3	27	-6	23
Weston, Idaho.	-6	*10	-21	12	20	*8	20	4	28	10	33	6	37	3	38	16	29	19	14	31	3	29	-9	23
Woodruff	-10	13	-35	12	8	23	16	12	22	*7	29	*10	34	9	26	31	12	13						
Middle.																								
Black Rock	-5	13	-26	13	19	9	20	4	30	10	37	5	41	2	43	12	18	30	13	19				
Callao	9	12																						
Castle Dale	-5	3	-34	13	10	31			19	11	30	*5	36	*2	38	*13	25	30	4	19	5	30	-9	23
Cisco	-10	13	-13	13	17	28	16	4	27	23	34	5	39	2	41	18	27	30	10	*19	10	15	-9	30
Deseret	-2	13	-20	13	16	31	20	4	22	3	33	1	42	*2	41	19	30	*25	13	30	16	30		
Emery	4	2	-13	12	19	31	23	1	28	10	39	6	48	8	50	*16	31	*18	19	20	18	29	-1	30
Fillmore	0	*1	-22	12	18	23	21	1	26	10	32	5	38	5	43	16	28	19	12	19	12	29	0	*2
Garrison	3	1	-22	12	9	31	9	1	26	10	34	5	45	2	48	16	29	*18	18	19	5	*28	-2	23
Government Creek	-5	14	-14	14	27	28	29	4	32	3	50	5	52	2	56	18	41	30	22	21	18	29	3	30
Grand Junction, Colo.	-14	15	-12	13	20	9	12	3	32	5	44	29	49	*2	48	17					16	5	-1	30
Green River	-10	2	-12	12	0	31	17	*1	22	*10	30	*5	32	2	37	18	23	18	4	19				
Ibapah	1	5	-15	13	19	31	22	1	27	*4	36	5	47	*2	49	*16	28	30	15	19	8	29	-5	30
Levan	-5	2	-21	13	18	31	20	1	29	*6	37	6	41	3	45	16	30	30	11	19	7	29	-3	30
Manti	-5	2	-21	13	18	31	20	1	29	*6	37	6	41	3	45	16	30	30	11	19	7	29	-3	30
Mt. Nebo.	5	6	-6	13	18	31	21	1	32	*4	39	*5	46	4	50	*16	33	18	18	*19	14	29	-5	30
Mt. Pleasant.	2	1	-16	12	17	*27	20	3	27	9	37	17	43	1	51		30	*29	14	17	7	28	-6	30
Oak City.	-5	13	-2	12	18	31	24	4	32	10	37	6					19	19	19	15	29	-10	30	
Provo	-1	1	-26	13																				
Richfield	-1	1	-33	11	21	*9	17	4	25	4	32	6	36	*3	36	19	25	18	7	19	4	29	-16	*2
Scipio	-14	1	-17	12	10	*28	14	4	21	10	25	6					20	*18	2	19	-6	29	-13	*3
Soldier Summit.	-10	13	-17	12	10	*28	14	4	21	10	25	6					20	*18	2	19	-6	29	-13	*3
Thistle	-13	12	-14	12	11	22	16	1	30	9	27	24	26	4	30	*14			2	19	1	28	-13	
Trout Creek.	-11	12	-11	12	14	20	17	1	21	10	35	*5	42	2	42	1	26	18	11	19	13	12	-5	
Utah Lake Pump Sta.	-10	13	-9	12	15	30			30	10	37	10	38	30	35	26	29	19			5	29	-15	*2
Wellington	-11	14	-23	13	19	31			25	11	36	*4	36	31	39	15	29	*19						
Southern.																								
Aneth	10	*1	5	13	26	28	28	5	31	11	44	6	49	3	49	*18	38	30	30	*9	16	29	2	30
Beaver	0	2	-21	12	14	30	14	1	24	13	23	5					17	29	14	17	10	30	-5	30
Cedar City	-9	13	-34	13	13	25	14	4	18	11	25	4	32	*2	35	*18	20	19			-5	*23	-19	30
Coyote	3	*6	-7	14	25	31			27	12	40	5	51	14	53	*16	39	29	26	19	25	*28	12	
Escalante	3	*6	-7	14	25	31			27	12	40	5	51	14	53	*16	39	29	26	19	25	*28	12	
Experiment Farm.	12	2	-17	12	18	31	22	1	22	10	39	5	50	15	53	10	30	30	23	*19	14	29	3	
Frisco	-8	14	-9	14	22	*9	24	4	30	11	39	6	44	3	47	16	32	19	11	20	20	15	3	
Giles	-8	14	-9	14	22	*9	24	4	30	11	39	6	44	3	47	16	32	19	11	20	20	15	3	
Grayson	17	5	6	13	32	28	25	*4	18	10	40	*4	46	1	49	11	32	30	23	10	6	29	4	*2
Hite	4	3	-8	14	14	28	19	*3	19	11	30	5	40	13	42	*16	28	29	18	18	10	*25	1	
Kanab	7	*1	-15	12	18	*23	22	4	23	11	40	*5	42	3	46	11	30	30	14	19	6	29	-2	
La Sal.	-8	14	-30	13	10	23	14	4	20	11	28	5	35	2										

MONTHLY AND ANNUAL PRECIPITATION FOR THE YEAR 1905, WITH DEPARTURES FROM THE NORMAL

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
henn.	0.79	-.74	3.39	+1.61	3.47	+1.13	3.98	+2.10	1.75	-.33	0.15	-.11	0.73	-.23	0.61	-.11	4.14	+3.34	0.15	-1.24	1.13	-.33	1.90	+1.00	22.26	+5.88
ch's Fork.	1.20	.....	1.20	.....	.....	.....	3.19	.....	4.04	.....	0.88	.....	0.91	.....	0.85	.....	3.45	.....	1.39	.....	2.13	.....	2.08	.....	.....	.....
ck	0.65	.....	1.00	.....	1.77	.....	2.16	.....	2.33	.....	1.34	.....	1.03	.....	0.44	.....	1.59	.....	1.10	.....	1.00	.....	1.25	.....	.....	.....
ck	0.35	-.92	0.60	-.64	2.02	+.69	1.62	.....	2.85	+1.67	0.10	-.39	0.00	.....	1.11	.....	1.09	.....	0.22	.....	0.74	.....	1.00	.....	10.98	.....
Wyo.	0.27	-.57	0.45	-.75	1.72	.....	1.71	.....	0.86	.....	0.32	-.31	0.84	.....	0.71	.....	1.48	.....	0.30	.....	0.15	.....	0.32	.....	9.13	-3.68
on	1.14	.....	2.02	.....	4.18	+1.95	2.08	.....	2.80	.....	0.33	.....	0.05	.....	0.52	.....	1.91	.....	0.06	.....	1.41	.....	1.34	.....	19.43	-3.22
asine	0.60	-.43	0.60	.....	1.75	.....	0.69	.....	1.09	.....	0.10	.....	0.14	.....	0.06	.....	5.92	+5.01	0.28	.....	1.25	.....	1.04	.....	12.13	+5.15
	1.12	.....	1.03	-1.16	1.69	.....	2.06	.....	1.27	.....	0.43	.....	0.02	.....	0.58	.....	2.12	.....	0.31	.....	1.01	.....	0.73	.....	12.94	-3.24
	1.19	.....	1.37	.....	1.67	.....	2.45	+1.08	1.14	.....	0.22	.....	0.03	.....	0.98	.....	1.32	.....	0.86	.....	1.11	.....	1.16	.....	14.30	-1.63
	1.79	.....	1.47	.....	2.19	.....	2.51	.....	2.80	.....	0.55	.....	0.09	.....	0.59	.....	1.12	.....	0.45	.....	1.25	.....	1.39	.....	16.94	-1.77
	0.39	.....	0.02	.....	1.38	.....	2.22	.....	2.25	+1.68	T.	.....	0.31	.....	0.00	.....	1.13	.....	T.	.....	0.45	.....	0.32	.....	12.51	-1.65
	0.40	.....	1.22	.....	2.22	.....	1.60	.....	2.13	.....	0.63	.....	0.03	.....	0.20	.....	2.07	.....	0.37	.....	0.80	.....	0.30	.....	12.51	-1.65
	2.39	+1.35	1.25	.....	1.35	.....	2.10	.....	4.15	+2.30	1.15	.....	0.65	.....	0.35	.....	1.77	.....	0.75	.....	0.90	.....	1.65	.....	17.87	+2.75
lle	1.70	.....	0.64	.....	2.08	.....	2.13	.....	2.11	.....	0.76	.....	0.20	.....	0.18	.....	1.93	.....	0.71	.....	1.83	.....	1.34	.....	13.84	-0.92
daho	0.81	.....	1.29	.....	2.45	.....	1.38	.....	1.69	.....	0.51	.....	0.65	.....	0.36	.....	1.39	.....	0.78	.....	1.34	.....	1.02	.....	13.70	.....
daho	0.20	.....	0.60	.....	1.63	.....	0.91	.....	1.46	.....	0.80	.....	0.26	.....	0.80	.....	0.30	.....	0.00	.....	1.2	.....	0.50	.....	19.25	+1.49
1.	1.20	.....	1.71	.....	3.36	.....	2.45	.....	4.25	+1.28	0.85	.....	0.19	.....	1.17	.....	1.51	.....	0.29	.....	0.92	.....	1.35	.....	17.00	+3.05
2.	1.22	.....	1.62	.....	2.93	+1.24	2.14	.....	2.90	+1.29	0.82	.....	0.28	.....	0.03	.....	1.16	.....	0.23	.....	1.31	.....	1.60	.....	12.65	-0.16
											0.39	.....	0.27	.....	.....	.....	*0.20	.....		.....		.....	*0.02	.....	10.20	-0.11
Idaho	0.37	.....	0.76	.....	2.09	.....	1.33	.....	1.13	.....	1.17	.....	0.85	.....	0.35	.....	0.76	.....	0.23	.....	0.59	.....	0.73	.....	10.20	-0.11
	0.24	.....	0.10	.....	1.40	.....	2.22	.....	1.07	.....	0.78	.....	1.24	.....	1.07	.....	1.32	.....	0.47	.....	0.21	.....	T.	.....	10.78	.....
ach.	0.70	.....	0.30	.....	2.87	.....	1.38	.....	2.29	.....	0.16	.....	0.34	.....	0.82	.....	1.42	.....	0.25	.....	0.89	.....	0.67	.....	12.20	.....
City	0.38	.....	0.73	.....	2.62	.....	1.59	.....	2.74	+1.02	0.23	.....	0.56	.....	0.62	.....	2.07	.....	0.24	.....	1.30	.....	0.73	.....	14.23	-1.96
	0.65	.....	1.22	.....	1.70	.....	2.04	.....	2.30	+1.07	0.59	.....	0.11	.....	0.04	.....	1.35	.....	T.	.....	1.80	.....	1.60	.....	12.01	+0.69
ry Valley.	0.83	.....	0.60	.....	1.01	.....	1.06	.....	1.42	.....	0.17	.....	1.08	.....	1.28	.....	3.04	.....	0.78	.....	1.80	.....	*1.31	.....	14.94	+0.57
	1.02	.....	1.03	.....	3.21	+1.31	1.88	.....	1.42	.....	T.	.....	0.64	.....	0.11	.....	2.19	.....	0.55	.....	1.67	.....	1.18	.....	14.94	+0.57
	0.86	.....	1.20	.....	1.85	+1.03	1.22	.....	1.38	.....	0.21	.....	0.52	.....	0.24	.....	1.81	.....	0.15	.....	0.97	.....	0.33	.....	12.65	-0.16
Idaho	0.40	.....	0.60	.....	2.31	.....	1.75	.....	1.75	.....	0.56	.....	0.01	.....	0.47	.....	1.60	.....	0.38	.....	0.98	.....	1.30	.....	12.65	-0.16
	0.40	.....	0.45	.....	0.98	.....	1.56	.....	2.35	.....	0.40	.....	0.11	.....	0.85	.....	1.07	.....	0.11	.....	0.41	.....	.....	.....	.....	.....
Idle.																										
ck.....	0.48	+ .15	2.26	+1.28	1.74	+ .64	1.28	+ .20	1.52	+ .61	T.	- .33	0.65	+ .40	0.75	- .13	2.57	+2.05	0.88	+ .13						
ale.....	0.05	.....	2.00	+1.54	0.93	+ .57	.....	.....	0.40	+ .22	0.00	- .39	0.45	- .09	0.98	+ .30	2.23	+1.64	0.80	+ .34	2.55	+2.14	25	+ .19		
ck.....	0.50	+ .35	2.40	+1.71	0.17	- .37	0.85	+ .58	1.60	+1.10	0.00	- .12	0.01	- .25	0.41	- .01	1.03	+ .40	0.01	- .70	1.51	+1.33	1.00			
ck.....	0.42	.....	2.82	.....	1.60	.....	1.22	.....	1.35	.....	0.00	.....	0.34	0.00	0.58	.....	1.27	.....	0.70	.....					
ck.....	0.42	+ .14	1.25	+ .35	1.06	+ .59	1.36	+ .43	1.85	+ .38	0.00	.....	0.34	0.00	1.15	+ .73	1.79	+1.23	T.	.....	1.25	+ .92	13	- .39	9.76	+2.17
ck.....	0.08	.....	3.01	.....	0.62	.....	0.39	.....	0.70	.....	0.00	.....	0.56	T.	0.18	.....	0.90	+ .18	0.65	.....	0.51	.....	0.48	.....	8.82	.....
ck.....	0.90	.....	2.48	+1.04	2.66	+ .70	1.63	- .30	2.45	+1.21	T.	.....	0.52	0.53	0.62	.....	2.81	+1.99	0.51	- .34	1.13	+ .23	54	- .54	16.16	+2.82
ck.....	0.37	.....	1.30	.....	0.30	.....	0.99	.....	1.83	.....	T.	.....	0.10	0.10	0.83	.....	0.85	.....	0.00	.....	2.14	.....	1.1	.....	8.82	.....
nt Creek.	0.64	+ .08	1.33	.....	2.72	.....	1.87	.....	2.17	+ .37	T.	.....	0.22	T.	0.34	.....	1.96	+1.66	0.10	- .46	1.69	+ .83	63	.....	13.61	+0.89
nt Creek.	1.01	+ .41	1.37	.....	1.18	.....	1.24	.....	1.98	+1.35	0.04	.....	0.31	0.16	0.33	.....	1.71	+ .78	0.27	- .89	0.75	+ .12	23	- .18	10.27	.....
er.	0.49	+ .26	1.15	.....	0.65	+ .40	1.00	.....	1.65	+1.24	0.05	.....	0.03	T.	0.22	.....	0.06	.....	0.00	.....	2.39	+1.86	10	.....	10.01	.....
er.	0.27	.....	0.82	.....	1.35	.....	0.50	.....	2.20	.....	0.40	.....	0.00	0.00	2.22	.....	0.40	.....	0.00	.....	1.10	.....	0.75	.....	10.01	.....
er.	0.99	.....	0.15	.....	1.15	.....	0.94	.....	1.11	.....	T.	.....	0.05	0.05	0.20	.....	0.95	.....	0.12	.....	0.18	.....	0.73	.....	6.57	.....
er.	0.91	.....	2.53	+1.01	2.10	.....	1.63	.....	2.60	+1.24	0.30	.....	0.24	0.34	0.47	.....	3.68	+2.68	0.12	-1.15	1.22	+ .31	94	- .76	16.24	+1.39
er.	0.85	.....	3.42	+2.14	1.99	.....	1.54	.....	2.25	+1.54	0.05	.....	0.09	T.	0.20	.....	3.09	+2.29	0.54	- .30	2.99	+2.39	1.10	+ .39	17.93	+7.62
er.	0.61	.....	0.68	.....	1.62	.....	1.02	.....																	

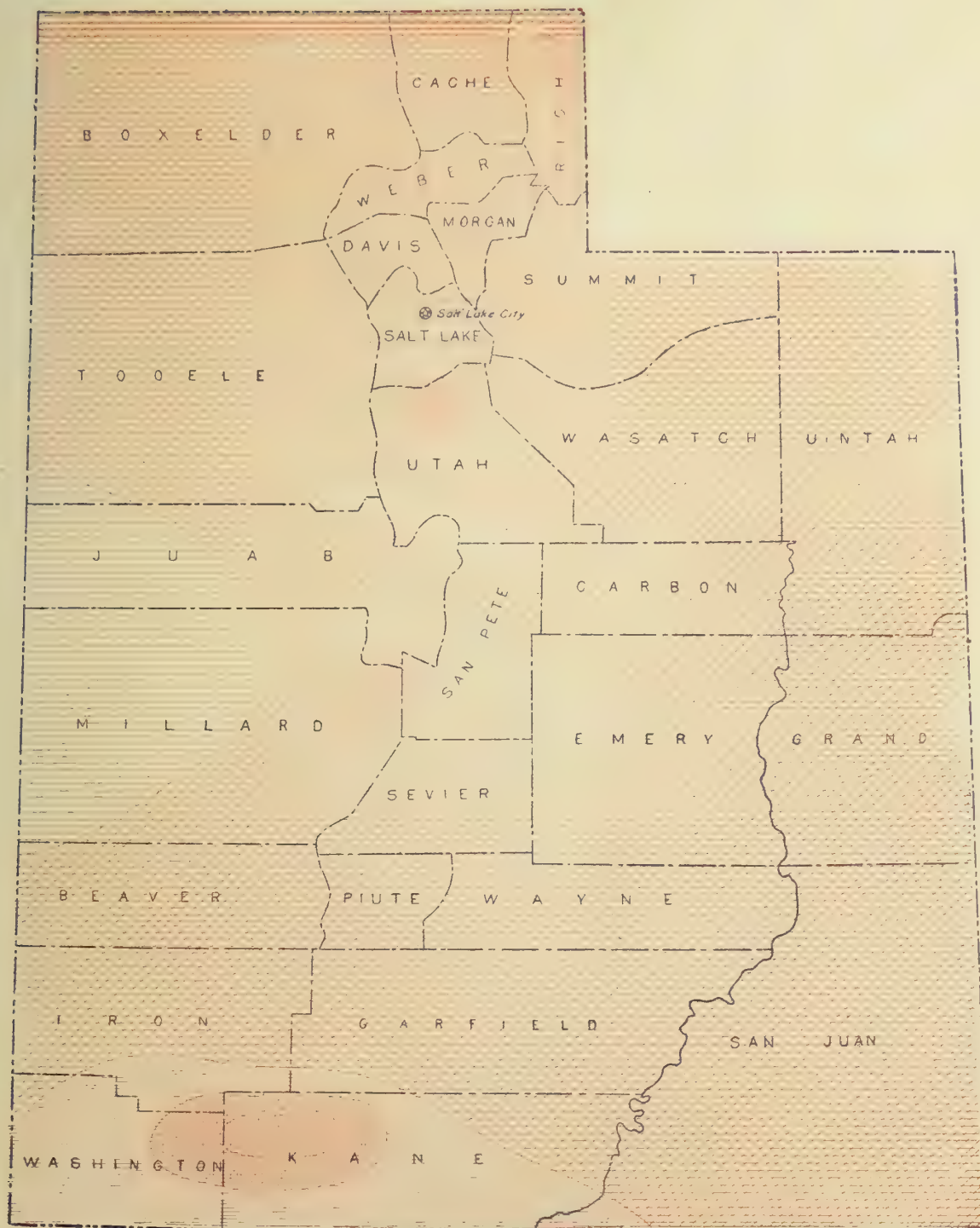
CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS



KEY TO SYMBOLS

- COOPERATIVE STATION ⊕ FORECAST DISPLAY STATION
- ⊙ COOPERATIVE AND FORECAST DISPLAY STATION
- LOCAL OFFICE U.S. WEATHER BUREAU

TOTAL PRECIPITATION FOR THE YEAR 1905.



SCALE OF SHADES IN INCHES.



CO-OPERATIVE OBSERVERS.

Stations.	Co-operative Ob- servers.	Stations.	Co-operative Ob- servers.	Stations.	Co-operative Ob- servers.	Stations.	Co-operative servers.
Alpine	T. B. Whitby.	Garrison	E. M. Smith.	Meadowville	J. S. Moffat.	Randolph	Wm. Rex.
Alta	John G. Stillwell.	Giles	J. C. White.	Millville	Fred Yeates.	Richfield	Anton Nielsen.
Aneth	Miss Sophia Hu- bert.	Government Cr'k	Walter James.	Minersville	R. W. Dotson.	Rockville	E. R. Daley.
Beaver	A. B. Anderson.	Green River.....	Louis C. Farrer.	Moab	Henry Crouse.	Salina	H. T. Wright.
Black Rock.....	Willard Burbank.	Grayson	Jos. A. Lyman.	Morgan	T. R. G. Welch.	Saltair Beach.....	Francis W. F.
Blacksmith's Fk.	A. M. Israelson.	Heber	John Crook.	Mt. Nebo.....	D. C. Walkey.	St. George.....	James G. Ble
Castle Dale.....	James Jeffs.	Henefer	William Brewer.	Mt. Pleasant.....	Web Greene.	Scipio	Thomas Me
Castle Rock.....	David Moore.	Hite	F. W. Gibbons.	Marion	James Woolsten- hulme.	Snowville	Joseph Robbi
Cisco	Agt. R. G. W. Ry.	Huntsville	Lars Petersen.	Nephi	A. Madsen.	Soldier Summit...	Agt. R. G. W.
Clear Creek.....	Warren Brady.	Ibapah	Owen Sheridan.	Ogden No. I.....	Enoch Farr.	Sunnyside	Henry Cullum
Corinne	Agt. S. P. Ry.	Indianola	R. H. Spencer.	Ogden No. II.....	W. H. Chevers.	Strawberry Valley	A. B. Larson
Coyoto	H. J. McCullough.	Kanab	E. M. Ford.	Panguitch	John E. Steele.	Trout Creek.....	E. E. Edwards
Cedar City.....	R. V. Smith.	Kelton	Agt. S. P. Ry.	Park City.....	P. S. McKimmins.	Torrey	John C. Jacol
Deseret	S. W. Western.	La Sal.....	Mrs. G. W. Car- penter.	Parowan	James Connell.	Thistle	Agt. R. G. W.
Emery	H. C. Wickman.	Levan	William Brown.	Payson	W. C. Wightman.	Tooele	I. J. Elkington
Escalante	W. G. Bleak.	Logan	Michael Hansen.	Pine Valley.....	William Gardner.	Tropic	E. P. Bolton.
Escalante, Forest	Geo. H. Barney.	Lucin	J. B. Nelson.	Pinto	J. H. Harrison.	Utah Lake Pump- ing Station.....	W. A. Knight
Farmington	Charles Boylin.	Manti	Agt. S. P. Ry.	Plateau	W. H. Schock.	Vernal	Joab Collier.
Fillmore	J. J. Starley.	Marysvale	Willis M. Har- mon.	Provo	Wm. K. Henry.	Wellington	E. E. Branch
Ft. Duchesne.....	Post Surgeon.		John W. Henry.	Ranch	J. W. Seaman.	Woodruff	Thos. Ashton
Frisco	S. N. Slaughter.						

DISPLAYMEN.

Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.
Bingham Canyon *(40)	C. H. Roberts, P. M.	Heber *(90).....	C. H. Ohlweiler.	Mt. Pleasant.....	Thomas Braby.	Riverton *(100)....	A. E. Walker, J
Calder's Park	W. J. Butter- worth, P. M.	Logan *(17).....	F. D. Farrell.	Point Lookout....	C. E. Foxley	Utah Penitentiary	The Warden.
		Morgan	T. R. G. Welch.	Provo *(337).....	Postmaster.		

* Distributing centers. Figures indicate number of addresses supplied with daily forecasts.

TABLE OF KILLING FROSTS.

Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn.
Aneth	May 11	Sept. 17†	Giles	April 4	Oct. 1	Marion	Sept. 1	Sept. 1	Ranch	June 27†	Sept. 1
Beaver	May 10	Sept. 30	Government Cr'k	May 23†	Sept. 30	Marysvale	May 11	Sept. 15	Randolph	April 20†	Sept. 15
Black Rock.....	May 10	Sept. 30	Grayson	May 10†	Sept. 30†	Meadowville	June 6†	Sept. 18†	Rockville	April 20†	Sept. 18†
Castle Dale.....	June 6†	Sept. 18†	Green River.....	May 5	Sept. 1	Minersville	April 2†	Sept. 1	Saltair Beach.....	April 4†	Sept. 1
Castle Rock.....	Sept. 1	Oct. 10†	Heber	June 18†	Sept. 14	Moab	April 6†	Oct. 9†	St. George.....	Mar. 31†	Oct. 9†
Cisco	April 10†	Sept. 4	Henefer	May 24	Sept. 1	Modena	May 11	Sept. 19†	Salt Lake City....	April 1†	Sept. 19†
Clear Creek.....	Sept. 4	Oct. 8†	Hite	Mar. 23†	Oct. 20†	Morgan	May 22†	Sept. 14	Scipio	June 6†	Sept. 14
Corinne	April 26†	Sept. 13	Huntsville	July 2†	Sept. 14	Mt. Nebo.....	May 4	Sept. 18†	Snowville	May 13	Sept. 18†
Coyoto	July 17†	Sept. 13	Ibapah	Sept. 14	Sept. 16†	Mt. Pleasant.....	May 22†	Sept. 18†	Thistle	July 8†	Sept. 18†
Deseret	May 23	Sept. 19	Kanab	May 21†	Sept. 29†	Oak City.....	May 23†	Sept. 18†	Tooele	May 10†	Sept. 18†
Emery	May 28†	Sept. 28	Kelton	May 14†	Sept. 30†	Ogden	April 4†	Oct. 9†	Torrey	May 14†	Oct. 9†
Escalante	May 12†	Sept. 18†	La Sal.....	May 14†	Sept. 30†	Panguitch	June 27	Sept. 9	Trout Creek.....	May 28†	Sept. 9
Farmington	April 13†	Sept. 18†	Levan	May 10	Sept. 30	Park City.....	June 17†	Sept. 17	Utah Lake P. Sta	May 11	Sept. 17
Fillmore	May 23†	Sept. 18†	Loa	June 6†	Sept. 17†	Parowan	June 5†	Sept. 18†	Vernal (near).....	May 10†	Sept. 18†
Fort Duchesne.....	May 3	Sept. 17†	Logan	May 21†	Sept. 9†	Pinto	June 19†	Sept. 17	Wellington	May 11†	Sept. 17
Frisco	April 30	Sept. 30†	Lucin	May 23†	Oct. 9†	Plateau	July 16†	Sept. 18†	Woodruff	May 14†	Sept. 18†
Garrison	June 5†	Sept. 18	Manti	May 12†	Sept. 18†	Provo	May 10†	Sept. 18†		June 23†	Sept. 18†

Note.—At stations where no frost record was kept, the date of the last freezing temperature of spring and the first freezing temperature of autumn have been given. Such data have been distinguished from the regular frost report by the use of the (†).

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1906.

UTAH SECTION
OF THE
CLIMATE AND CROP SERVICE
OF THE
WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU

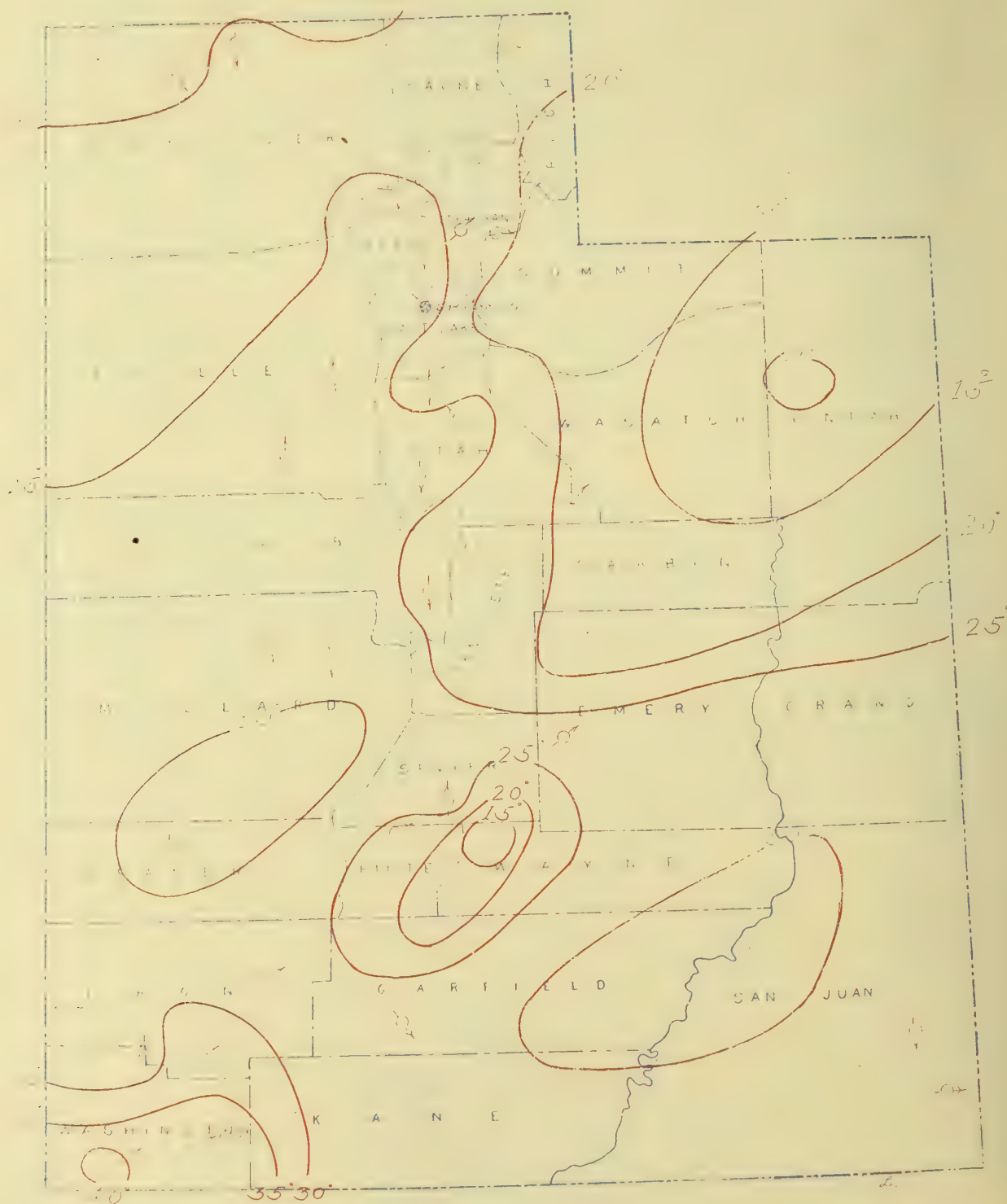
BY

R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
FEBRUARY 27, 1906

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

PL. VIII. SALT LAKE CITY, UTAH, JANUARY, 1906. No. 3

GENERAL SUMMARY.

Continued high barometric pressure lay dormant over the mountain country during much of the month, and the resultant weather for the State was characteristic of such stagnant conditions, being for the greater part calm and cloudy, with considerable fogginess and nearly stationary temperature. The light convectional air currents downward in the high pressure area, over the moist, snow-covered earth, favored the formation of fog, especially during the last decade. Another distinctive feature of the month was the effective, though temporary, breaking up of the settled weather conditions during the second decade, when nearly a week of active storms prevailed, causing general and heavy precipitation over a large area, with local thunderstorms, but no destructive winds accompanied the storms.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 25.3°, or 1.1° below the normal. The highest local monthly mean was 40.0° at St. George; the lowest was 10.0° at Fort Duchesne. The highest temperature recorded was 70° at Plateau and at St. George on the 27th; the lowest was 39° below zero at Strawberry Valley on the 9th, giving an absolute range for the section of 109°. The greatest daily range for any station was 63° at Plateau on the 29th. The highest temperatures of the month were generally recorded on the 16th and 17th, and the lowest on the 9th.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 1.60 inches, or 0.28 inch above the normal. The excess was general over the section. The greatest monthly amount was 5.45 inches at Meadowville, and the least 0.10 inch at Frisco. The greatest precipitation in any 24 consecutive hours was 1.70 inches at Coyote on the 18th. The precipitation during the month was almost entirely in the form of snow, the fall being the heaviest for the northern portion. There was an average of 6 days with one inch or more of precipitation, 6 over the northern and middle portions, and 5 over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 420; at Modena, 6,823; at Grand Junction, Colo., 2,347; and

at Pocatello, Idaho, 2,662. The maximum velocity at Salt Lake City was 12 miles per hour from the northwest on the 19th; at Modena, 42 miles from the northwest on the 19th; at Grand Junction, Colo., 20 miles from the southwest on the 14th; and at Pocatello, Idaho, 38 miles from the southwest on the 19th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 12; partly cloudy days, 6; cloudy days, 13. Determined from the records of automatic sunshine recorders, Salt Lake City had 30 per cent; Modena 58 per cent; Grand Junction, Colo., 64 per cent; and Pocatello, Idaho, 49 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 76 per cent, the lowest observed reading being 44 per cent on the 16th; at Modena, 70 per cent, the lowest observed reading being 34 per cent on the 10th; at Grand Junction, Colo., 76 per cent, the lowest observed reading being 50 per cent on the 8th and on the 30th; and at Pocatello, Idaho, 82 per cent, the lowest observed reading being 48 per cent on the 11th.

WEATHER AND CROP CONDITIONS.

During the cold weather of the early part of the month, portions of the State were unprotected by snow, but the main farming districts were well covered during the entire month, thus protecting winter grain and making the outlook propitious for spring growth. All stock in winter quarters was doing well, though feed was becoming scarce. Animals on the range were, however, beginning to suffer, in some localities, owing to the depth of snow. Farm work progressed slowly, and was limited to teaming, orchard work, and feeding stock.

DEPTH OF SNOW IN THE MOUNTAINS.

Heavy precipitation was well distributed over the entire section, leaving an almost unbroken covering of deep snow at the close of the month. The stores of snow in the mountains were not only very great, but were also in excellent condition to be preserved for the late summer requirements, being well packed, with a density almost equal to ice. This most fortunate condition was produced by the moist state of the principal part of the precipitation, much of it being in the form of rain. Warm winds were also an important factor in the settling and solidifying process. During this period vast bodies of snow, high up on the mountains, lost their anchorage and slid into the gulches and canyons, producing great reservoirs of snow. The general cloudiness prevented much loss by evaporation.

OBSERVERS' REMARKS.

Alpine.—Farming operations were at a complete standstill during the entire month.—T. B. Whitby.

Aneth.—The earthquake that occurred here on the 25th was attended by a rumbling noise; the quakes, while not very violent, were severe enough to be quite noticeable; the movement was first noticed at 1.23 p. m., and lasted about 30 seconds.—H. R. Antes.

Blacksmith's Fork.—The snow-covering was solid, and contained considerable water; during the latter part of the month the days were fine, but the nights were cold.—A. M. Israelson.

Castle Rock.—The snow was well drifted; the prospects for next season's water supply at the close of the month were better than for several years past.—David Moore.

Corinne.—The month was cold, cloudy, foggy and frosty.—A. C. Murphy.

Deseret.—The month was very cloudy and cold; plowing was impossible owing to the condition of the ground.—S.W. Western.

Emery.—During the fore part of the month the weather was uniformly cold, but during the latter part diurnal temperatures were quite high, and the snow, in consequence, disappeared rapidly.—H. C. Wickman.

Giles.—The month was the most cold and changeable ever experienced in this portion of the section.—Jno. C. White.

Government Creek.—The month was cold and changeable.—W. James.

Heber.—The weather from the 12th to the 21st was the stormiest in years.—John Crook.

Henefer.—The weather was quite cold, but not so severe as that of a year ago; fine wet snows fell during the middle of the month that materially improved the prospects for next season's supply of water.—Wm. Brewer.

Huntsville.—The month was cold and stormy.—Lars Petersen.

Levan.—The weather during the month was very changeable.—Wm. Brown.

Marysville.—The month was rather cold and stormy.—Jno. W. Henry.

Meadowville.—Excepting on the 14th and 20th, when severe blizzards prevailed, the month was not very cold; the mountains were covered with well packed snow to a depth of about 4 feet.—J. S. Moffat.

Morgan.—The snow on the ground was solid enough to bear the weight of a man.—T. R. G. Welch.

Mt. Nebo.—The weather during the month was truly wintry, with more than the usual cloudiness; temperatures were much lower than a year ago.—D. C. Walkey.

Park City.—The snow was very deep in drifts.—P. S. McKimmins.

Pinto.—On the 19th a severe hailstorm from the northwest continued about four hours.—J. H. Harrison.

Sunnyside.—On the 20th a snowslide occurred in the canyon in which one man lost his life; the month was the coldest of record.—Henry Cullum.

Tropic.—The month was abnormally cold; snow on the mountains was well packed, and a good supply of water for summer use seemed assured.—E. P. Bolton.

Trout Creek.—There appeared to be more snow in the mountains than for several years.—E. E. Edwards.

CORRECTION.

Aneth: October precipitation should be none.

WATER STAGES.

A rise from 1.0 foot below to 0.8 foot below zero occurred in the water in Great Salt Lake from January 1st to 15th, and thereafter till the 1st of February the level was stationary.

MISCELLANEOUS PHENOMENA.

Auroras.—Hite, 2, 6, 20.

Rainbows.—Pinto, 13, 15.

Earthquake.—Aneth, 25.

Halo, solar.—Pinto, 22.

Halos, lunar.—Marysville, 6; Modena, 11; Mt. Nebo, 7; Salt Lake City, 15; Tropic, 6, 28.

Coronae, lunar.—Government Creek, 6, 9; Marysville, 3, 6, 1

Haze, light.—Salt Lake City, 6-8; Utah Lake Pumping Station, 28-31.

Hail.—Giles, 14; Government Creek, 14, 17; Henefer, 14; Levan, 14; Marysville, 14, 19; Meadowville, 16; Moab, 14; Ogden City, 14; Pinto, 20; Richfield, 14; Tooele, 19.

Thunderstorms.—Coyote, 19; Farmington, 14, 19; Government Creek, 19; Henefer, 14, 19; Levan, 14, 20; Marysville, 2; Modena, 14, 19; Morgan, 13, 19; Pinto, 20; St. George, 19; Salt Lake City, 14, 19; Tooele, 19.

Fogs, light.—Randolph, 1, 2; Salt Lake City, 2, 6-8, 29-31

Fogs, dense.—Alpine, 29-31; Castle Rock, 25, 26; Cedar City, 29-31; Corinne, 3, 11, 22-31; Deseret, 8, 25-31; Frisco, 29-31; Government Creek, 27-31; Heber, 5; Huntsville, 24, 26, 2; Levan, 5, 29-31; Manti, 16; Marion, 25; Marysville, 8, 30, 3; Meadowville, 6-9, 24, 25, 27-31; Modena, 8, 29, 31; Mt. Nebo, 28-31; Nephi, 29-31; Payson, 28-31; Pinto, 15; Provo, 27-28; Randolph, 8, 23-26; Richfield, 29-31; Salt Lake City, 25-28; Scipio, 28-31; Sunnyside, 11-15, 18, 19; Tooele, 9, 27-31; Trout Creek, 25-31; Utah Lake Pumping Station, 4, 8, 26.

Sleet.—Castle Rock, 13, 19, 20; Cedar City, 18; Government Creek, 13; Grayson, 15, 16, 18, 19; Heber, 14; Henefer, 14; Huntsville, 13, 19, 20; Manti, 14; Marion, 14, 19; Marysville, 19; Morgan, 13; Payson, 14, 20; Strawberry Valley, 18; Tropic, 19; Utah Lake Pumping Station, 12, 14.

High winds.—Castle Rock, 14, 17; Cedar City, 19, 20; Deseret, 12, 13, 16, 18, 19; Farmington, 1; Frisco, 1, 13-19; Grayson, 1-3; Government Creek, 13, 16-19; Grayson, 20; Henefer, 14, 15; La Sal, 20; Levan, 1; Marysville, 18, 19; Moab, 1; Modena, 19; Morgan, 14; Nephi, 1; Park City, 14, 17; Provo, 19; Salt Lake City, 13, 14, 16-20; Soldier Summit, 13, 14, 17, 20; Tooele, 18; Tropic, 1-3; Utah Lake Pumping Station, 1, 16, 19, 20.

COMPARATIVE DATA FOR JANUARY.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	24.4	68	-19	0.85
1893	26.0	71	-23	0.94
1894	21.9	63	-24	1.18
1895	23.0	60	-25	1.67
1896	28.4	66	-17	0.81
1897	26.1	68	-24	1.53
1898	16.9	69	-34	1.07
1899	27.9	70	-21	1.14
1900	31.6	70	-10	0.43
1901	28.2	64	-26	0.69
1902	26.5	74	-38	0.71
1903	27.0	66	21	1.40
1904	23.3	68	-23	0.83
1905	28.9	71	-22	0.86
1906	25.3	70	-39	1.60

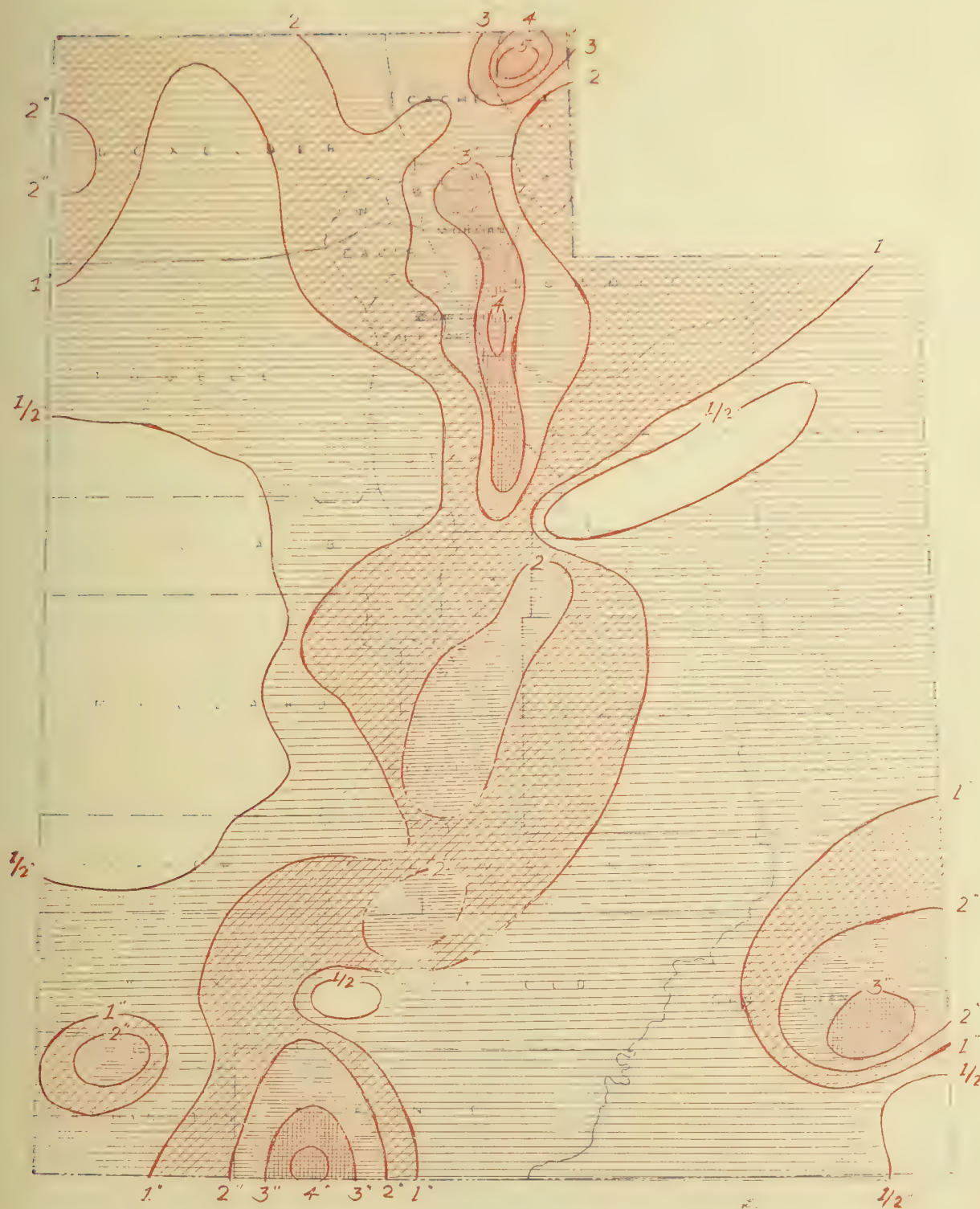
CLIMATOLOGICAL DATA, JANUARY, 1906.

Sections and stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind	Observers	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with at least one inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine	Utah	4,900	10								1.93	+0.57	1.20	20.0	5					T. B. Whitby.
Alpine	Box Elder	4,140	36	22.4	-2.2	44	25	-10	8	33	2.10	+0.79	0.60	10.5	2	8	9	15		Agent So. Pacific R. R.
Alpine	Uinta	9,959	10	19.4	-1.1	41	*11	-15	2	46	1.37	+0.48	0.33	8.5	7	19	7	5	sw.	Frank Tucker.
Alpine	Davis	4,267	6	27.8	-0.7	50	*18	-3	12	31	2.38	+0.26	0.90	16.6	6	6	1	24	n.	Charles Boylin.
Alpine	Utah	5,000	18	10.0	-1.7	41	19	-18	3	38	0.35	-0.03	0.15	3.5	4	11	8	12		Post Surgeon.
Alpine	Wasatch	5,606	13	20.8	-0.2	44	*16	-16	9	36	3.10	+1.13	1.10	13.5	10	15	3	13	s.	John Crook.
Alpine	Summit	5,301	7	21.4	-1.5	48	*16	-21	9	47	3.40	+1.69	1.10	17.2	10	15	3	13	w.	William Brewer.
Alpine	Weber	5,100	11								3.38	+0.82	1.04	19.0	6	10	6	15		Lars Petersen.
Alpine	Box Elder	4,430	28	18.9	-4.3	40	*16	-4	2		0.85	+0.25	0.60	8.5	2	5	15	11	nw.	Agent So. Pacific Co.
Alpine	Cache	4,507	15	21.4	-3.1	54	16	-15	8	33	2.28	+1.11	0.86		6					J. B. Nelson.
Alpine	Box Elder			21.6		45	*8	-4	*28	40	2.00		1.60	20.0	2					Agent So. Pacific R. R.
Alpine	Rich	6,200	7	21.0	-1.9	42	16	-3	9	29	5.45	+3.95	1.30	24.0	6	8	5	18	w.	J. S. Moffat.
Alpine	Morgan	5,580	2	21.6		49	16	-20	9	58	2.78		1.25	15.5	9	12	6	11	sw.	T. R. G. Welch.
Alpine	Cassia	4,191	13																	Thomas Adams.
Alpine	Weber	4,310	5	25.0	-2.3	48	20	-1	9	30	2.12	+0.04	0.60	21.2	7	14	1	16	e.	Enoch Farr.
Alpine	Weber	4,310	36	29.4	+0.8	47	17	-2	8		1.19	-0.34	0.77	5.0	5	8	0	23	n.	W. H. Chevers.
Alpine	Summit	7,800	9	18.1	-7.6	44	18	-8	21	32	4.58	+2.89		45.8	8					P. S. McKimmins.
Alpine	Bannock	4,483	6	24.8	+5.7	45	19	-2	8	28	2.30	+0.26	0.74	12.8	8	8	8	15	e.	Weather Bureau.
Alpine	Rich										1.10		0.53	14.5	6	21	1	9	sw.	Wm. Rex.
Alpine	Salt Lake		2	26.4		53	19	-1	9	27	1.13		0.50	8.5	7					Francis W. Bailey.
Alpine	Salt Lake	4,366	32	28.3	+0.4	50	16	-7	1	28	1.19	-0.25	0.64	8.2	9	5	6	20	se.	Section Center.
Alpine	Box Elder	4,360	16	20.2	-4.0	47	24	-13	8	46	1.20	-0.04	0.60	10.0	4	4	15	12	n.	Joseph Robbins.
Alpine	Wasatch										2.77		1.26	30.5	6	12	8	6		A. B. Larson.
Alpine	Tooele	4,900	10	28.3	+1.1	54	16	-7	*1	24	0.66		0.35		5	9	4	18	s.	I. J. Elkington.
Alpine	Utah		10	11.3	-8.3	38	19	-10	22	26	0.96	+0.38	0.40	8.8	7	20	2	19		Joab Collier.
Alpine	Oneida	4,460	8	18.6		42	17	-16	8	35	2.24		0.78	15.5	10	10	3	18	s.	William Chatterton.
Alpine	Rich	6,500	9																	Thomas Ashton.
Averages				21.9	-2.2						2.15	+0.36		16.0	6	11	5	15	n.	
MIDDLE.																				
Alpine	Millard	4,872	6																	Willard Burbank.
Alpine	Emery	5,500	7	17.0	-6.0	44	14	-15	9	46	1.59	+1.25	0.40		8	18	12	1		James Jeffs.
Alpine	Grand	4,385	14																	Ag. Rio Grande W. R. R.
Alpine	Millard	4,541	12	27.4	+0.6	53	*16	-7	3	32	0.31	-0.11	0.14	2.0	3	10	3	18	n.	S. W. Western.
Alpine	Emery	6,260	6	26.4	+1.4	40	*14	5	23	33	1.73	+1.69	0.83		4	7	7	17	sw.	H. C. Wickman.
Alpine	Millard	5,100	16	30.8	+1.2	55	27	-1	3	37	0.72	+0.48	0.35		5					J. J. Stanley.
Alpine	Tooele		2																	E. M. Smith.
Alpine	Tooele	5,277	6	27.5	+0.1	46	17	-3	9	29	0.64	-0.29	0.33	4.0	4	9	8	14	s.	Walter James.
Alpine	Mesa	4,608	15	26.3	-0.7	53	14	-1	9	31	0.40	-0.21	0.16	4.0	4	15	8	8	nw.	Weather Bureau.
Alpine	Emery	4,080	9	25.5	+0.2	58	15	-3	9	46										Louis C. Farrer.
Alpine	Tooele		2	23.3		48	16	-17	19	42	0.12		0.10	1.2	2	11	20	0		Owen Sheridan.
Alpine	San Pete																			R. H. Spencer.
Alpine	Juab	5,010	16	24.9	+1.1	45	*17	-6	9	29	1.64	+0.28	0.41	7.4	3	11	6	14	n.	William Brown.
Alpine	San Pete	5,575	12	24.0	-1.2	48	17	-7	3	36	2.48	+1.49	0.50		8					W. M. Harmon.
Alpine	Utah	4,050	5	26.7	+0.2	48	17	-10	9	34	0.92	+0.18	0.28		7	8	7	16	n.	D. C. Walkey.
Alpine	San Pete	5,859	14	24.8	-2.5	52	15	0	*2	39	1.53	+0.41	0.71	7.0	9	13	13	5		Web Greene.
Alpine	Juab										1.62		0.45	4.5	9	10	8	13		A. Madsen.
Alpine	Millard			28.4		50	*17	-2	3	34	1.09		0.35		6	11	12	8	n.	J. Finlinson.
Alpine	Utah	4,637		25.9	-0.7	50	19	-12	9	36	1.15		0.39	3.0	5	11	10	10	sw.	W. C. Wightman, Jr.
Alpine	Utah	4,532	14	25.9	-0.7	50	19	-12	9	36	1.05	-0.15	0.45	6.0	6	9	13	9	se.	W. K. Henry.
Alpine	Sevier		16	28.5	+2.3	53	*7	-6	3	38	\$0.30		\$0.10	\$3.0	\$5	16	3	12		Anton Nielsen.
Alpine	Millard	5,260	11	25.6	-0.8	50	26	-22	9	56	1.73	+0.54	0.68	5.0	7	7	4	20	sw.	Thomas Memmott.
Alpine	Utah	7,474	14	17.5	-0.8	35	*17	-15	8	36	0.38	-1.15	0.08		10	17	0	14	sw.	Agent Rio Grande R. R.
Alpine	Utah	5,075	14	24.0	-1.0	52	26	-8	1	41	13.00									Ag. Rio Grande W. R. R.
Alpine	Juab			27.9		55	16	-2	2	34	0.14		0.06		3	9	13	9		E. E. Edwards.
Alpine	Utah		1	21.3		49	17	-4	*6	35	0.90		0.52	5.5	9	2	3	26	n.	W. A. Knight.
Alpine	Carbon	5,546	7	17.5		48	18	-14	21	47	1.15	+0.76	0.35	11.5	4					E. E. Branch.
Averages				24.9	-0.2						1.20	+0.22		4.8	6	12	7	12	n.	
SOUTHERN.																				
Alpine	San Juan	4,800	6	27.3	-2.6	53	30	-10	3	38	0.29	-0.30	0.12		4	16	8	7	w.	Miss S. Hubert.
Alpine	Beaver		1	28.8		52	25	-2	21	41	1.10		0.60	11.0	2					A. B. Anderson.
Alpine	Iron			31.2		53	26	-3	3	37	0.68		0.48	6.6	3	13	5	13	sw.	Prof. R. V. Smith.
Alpine	Garfield		5	19.0	-5.0	52	17	-21	9	41	2.23	+1.99	1.70	\$21.0	3	18	2	11		H. J. McCullough.
Alpine	Garfield	5,700	6																	W. G. Bleak.
Alpine	Washington		1	38.4		67	27	15	8	44										Joseph T. Atkin.
Alpine	Beaver	7,318	12	31.5	-0.5	53	27	-5	*2	32	0.10	-0.35	0.05		2	12	5	14	sw.	S. N. Slaughter.
Alpine	Wayne	4,000	11	25.2	+0.4	50	19	-21	3	39	0.82	+0.48	0.50	7.8	6	20	4	7		J. C. White.
Alpine	San Juan		1	27.9		53	30	-1	22	34	3.21	+0.48	1.00	7.5	8	19	5	7	n.	Joseph D. Lyman.
Alpine	Garfield	3,000	7	33.0	-1.6	63	15	-2	3	33	0.74		0.59	6.0	3	19	7	5		F. W. Gibbons.
Alpine	Kane	4,925	6	26.6		54	29	-15	3	49	4.00		1.30	13.0	6	18	0	12		E. M. Ford.
Alpine	San Juan	7,000	6	25.3		53	27	-3	22	32	1.13		0.60	11.3	6	18	8	4		Mrs. G. W. Carpenter.
Alpine	Wayne	7,000	14	14.1	-7.7	45	*18	-23	9	41	1.50	+1.08	1.50	15c	1					Michael Hansen.
Alpine	Piute	6,180	7	24.6	-3.3	49	18	-11	9	42	0.85	+0.05	0.25	6.0	7	13	5	13	sw.	John W. Henry.
Alpine	Beaver	5,070	9																	R. W. Dotson.
Alpine	Grand	4,060	17	25.7	+0.7	56	17	-4	9	34	0.57	-0.07	0.21	0.6	6	11	9	11		Henry Crouse.
Alpine	Iron	5,479	td																	

MAXIMUM AND MINIMUM TEMPERATURES, JANUARY, 1906.

Sections and stations.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Corinne.....	28	5	26	20	32	4	31	7	30	9	15	10	37	30	34	14	34	15	42	36	35	20	30	10	38	10	41	10	37	10	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Evansville, Wyo.....	10	5	10	15	20	1	31	11	4	6	30	15	41	34	21	27	41	35	39	38	28	16	12	35	14	30	26	33	5	4	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Farmington.....	31	5	28	21	31	5	30	12	33	14	20	35	42	34	24	27	41	35	39	38	28	16	12	35	14	30	26	33	5	4	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Pt. Duchesne.....	38	15	35	28	38	12	37	14	30	15	16	17	38	31	34	24	27	41	35	39	38	28	16	12	35	14	30	26	33	5	4	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Heber.....	31	16	28	21	31	5	30	12	33	14	20	35	42	34	24	27	41	35	39	38	28	16	12	35	14	30	26	33	5	4	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Hemlock.....	28	5	26	20	32	4	31	7	30	9	15	10	37	30	34	14	34	15	42	36	35	20	30	10	38	10	41	10	37	10	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Kellum.....	11	15	6	22	31	18	34	2	27	14	15	15	26	16	20	1	31	7	30	9	15	10	37	30	34	14	34	15	42	36	35	20	30	10	38	10	37	10	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Logan.....	11	15	6	22	31	18	34	2	27	14	15	15	26	16	20	1	31	7	30	9	15	10	37	30	34	14	34	15	42	36	35	20	30	10	38	10	37	10	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Lucin.....	10	15	28	11	30	14	34	2	27	14	15	15	26	16	20	1	31	7	30	9	15	10	37	30	34	14	34	15	42	36	35	20	30	10	38	10	37	10	30	12	34	14	25	9	32.5	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Meadowville.....	19	2	27	3	33	35	6	31	15	25	22	32	33	32	30	22	32	33	32	33	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32</

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, JANUARY, 1906.

[illegible]

T indicates a trace of precipitation.

²⁰ Precipitation included in that of following day.

† Precipitation incomplete.

† Total amount estimated.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

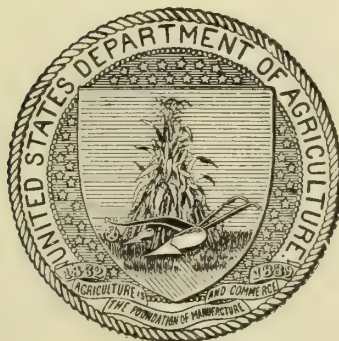
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

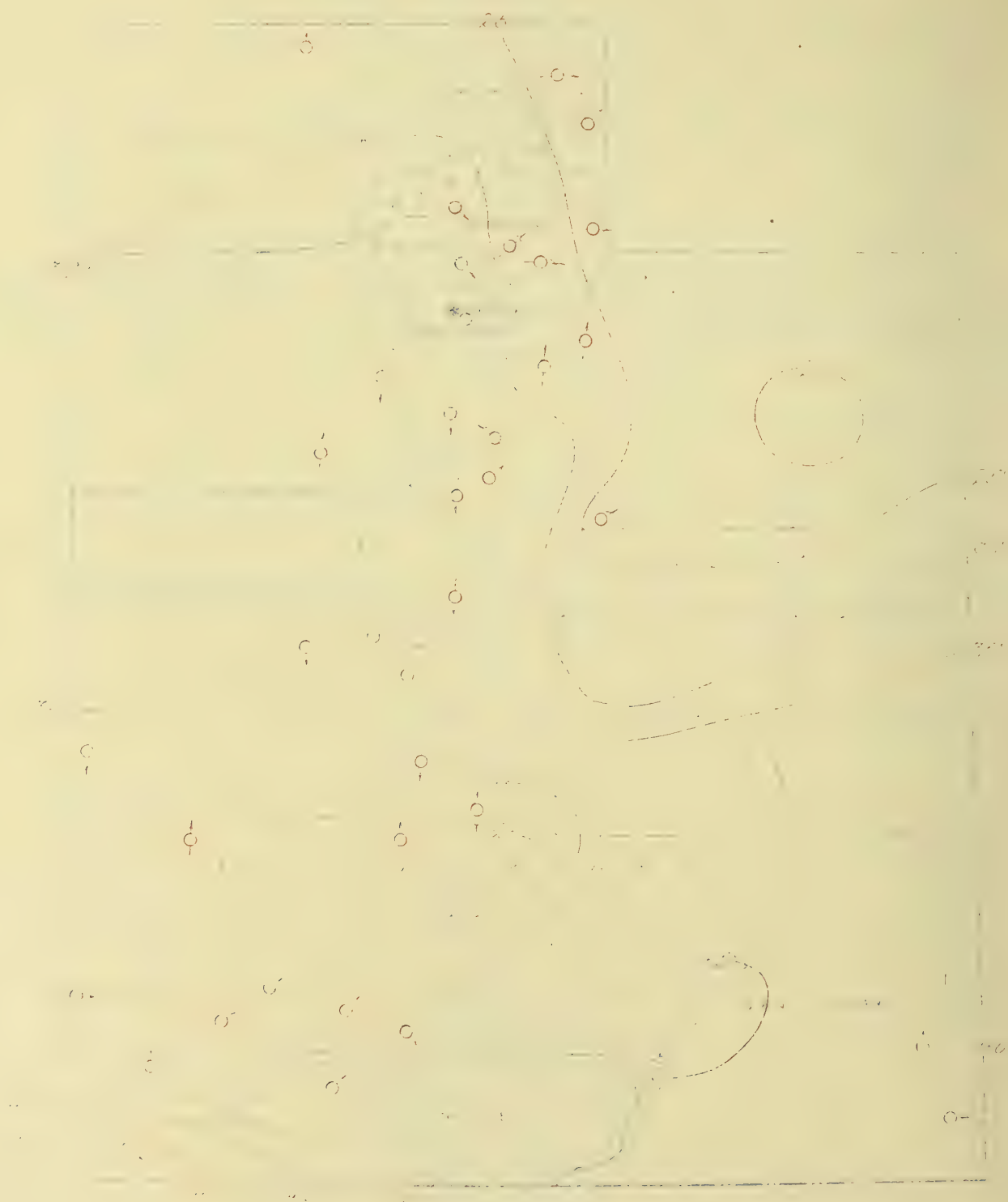
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MARCH 24, 1906

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VIII. SALT LAKE CITY, UTAH, FEBRUARY, 1906. No. 4.

TITLE OF PUBLICATION CHANGED.

Beginning with the present issue, this publication will be known as the Monthly Report of the Utah Section of the Climatological Service of the Weather Bureau. It succeeds the Climate and Crop Service series of monthly reports heretofore published in this form. The crop feature is omitted, but in other respects the character of the publication is unchanged.

GENERAL SUMMARY.

The striking characteristic of the month was the excessive cloudiness that prevailed, constituting in this respect the most remarkable February on record for the section. During the forepart of the month the weather continued under the influence of the persistent high barometric area that had already formed during the previous month. With the light winds resulting from the light baric gradient throughout the high area, numerous fogs prevailed over the lower valleys; although the clear skies common to such pressures were in evidence over the mountain peaks and higher valleys. With the continuation of these barometric conditions, the fogs, however, gradually ascended to the more elevated regions. Not until the stagnant air was completely upheaved by the high winds that heralded the approach of a storm from the Pacific coast about the end of the second decade were the fogs in the valleys effectually dissipated, and the atmosphere resumed its normal transparency. During the remainder of the month storms were of frequent occurrence, some of them resulting in considerable precipitation, generally in the form of moist snow, but interspersed at times in the lower portions of the section with rain and sleet that caused a rapid melting of the snow. Over the southern and eastern portions of the State, the amount of precipitation was considerably less, and in many localities in the Green River valley no precipitation was reported. Temperatures during the forepart of the month were decidedly below the normal, especially where, under the influence of the prevailing fogs, direct insolation was either impeded or entirely prevented; though in such cases radiation at night was correspondingly less, thus resulting in an unusually small range of temperature for this altitude. During the latter half of the month much warmer weather prevailed, which caused a rapid thawing of the ground, and freeing it, at least in lower altitudes, from the winter's frost.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 33.7°, or 3.5° above the normal. The

highest local monthly mean was 52.0° at Rockville; the lowest was 18.7° at Fort Duchesne. The highest temperature recorded was 81° at Rockville on the 27th; the lowest was 15° below zero at Fort Duchesne on the 8th; giving an absolute range for the section of 99°. The greatest daily range for any station was 50° at Manti on the 26th. The highest temperatures of the month were generally recorded on the 27th, and the lowest generally occurred during the first week.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 0.88 inch, or 0.28 inch below the normal. A deficiency occurred over all portions of the section, especially over the middle and southern portions. The greatest monthly amount was 2.56 inches at Farmington, while at Green River no precipitation was recorded. The greatest rainfall in any 24 consecutive hours was 1.25 inches at Marion on the 21st. The precipitation during the month was generally in the form of snow, though considerable rain and sleet fell in the lower valleys. There was an average of 5 days with .01 inch or more of precipitation; 6 over the northern portion, and 4 over the middle and southern portions.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 3,152; at Modena, 5,759; at Grand Junction, Colo., 2,942; and at Pocatello, Idaho, 6,631. The maximum velocity at Salt Lake City was 47 miles per hour from the north on the 19th; at Modena, 60 miles from the southwest on the 28th; at Grand Junction, Colo., 33 miles from the south on the 28th; and at Pocatello, Idaho, 34 miles from the southeast on the 20th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 9; partly cloudy days, 7; cloudy days, 12. Determined from the records of automatic sunshine recorders, Salt Lake City had 26 per cent; Modena 50 per cent; Grand Junction, Colo., 66 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 74 per cent, the lowest observed reading being 29 per cent on the 20th; at Modena, 74 per cent, the lowest observed reading being 30 per cent on the 20th and 27th; at Grand Junction, Colo., 62 per cent, the lowest observed reading being 20 per cent on the 19th; and at Pocatello, Idaho, 78 per cent, the lowest observed reading being 36 per cent on the 20th and 27th.

DEPTH OF SNOW IN THE MOUNTAINS.

Except over the eastern portion of the State, where locally little or no precipitation occurred, the amount of snowfall throughout the section during the month was decidedly above the average, particularly over the northern counties. During the forepart of the month dry and cold weather prevailed with, at times, almost an entire absence of air movement. There was in consequence little melting, and evaporation was at a minimum, factors that were of great importance in conserving the supply of snow already in the mountains and canyons. This snow had acquired

the solidity of ice through the gradual settling caused by its own weight, and served as a splendid foundation for the frequent snows that came subsequently with the marked change to stormy conditions that began about the beginning of the second decade. During this period, which continued during the remainder of the month, storms were frequent and sometimes severe, accompanied in many cases by high winds that drifted the snow considerably. Owing to the higher temperatures that obtained during the latter part of the month, the snow was generally very moist, interspersed at times with rain and sleet. The rain, while assisting considerably in the packing process, also materially aided the melting of the snow, which, in consequence, rapidly disappeared from the fields in the lower valleys. A considerable flow-off was, however, prevented by the favorable condition of the soil, which was free from frost, and readily absorbed the moisture.

THE PREVALENCE OF FOGS DURING THE PRESENT WINTER.

To the resident of the Salt Lake valley, accustomed as he is to the clear skies and bright sunshine of his intermountain home, the prevailing weather conditions during the present winter have appeared somewhat in the light of an enigma. Two periods of dense cloudiness, attended by constant fogs, have marked the cold season. The first occurred during the fore part of December, while the second period, of much longer duration and with all the features of the first highly accentuated, occurred during the latter part of January and the fore part of February. The fogs during this period were of marked density, objects at even a distance of 100 feet being often completely obscured. As the temperature during this entire period was constantly below the freezing point, the moisture with which the atmosphere was surcharged was deposited on the trees and bushes in the form of minute ice crystals, the layer attaining considerable thickness at times, the whole forming a picture as novel as it was beautiful. Such, in brief, was the predominating weather of the winter that caused the amazement as well as discontent of the inhabitants of this valley—a condition of affairs that was all the more inexplicable to the ordinary mortal, unversed in weather lore, in view of the reports from contiguous towns more highly situated, of clear skies and bright sunshine. In this connection, a comparison between the temperatures at Salt Lake City (altitude, 4,300 feet) and the town of Heber (altitude, 5,606 feet), some 30 miles distant, would seem to furnish the most interesting as well as instructive contrast. At the former station the mean maximum temperature from January 25th to February 14th, inclusive, the limits of this extraordinary period, was 30.4° ; the mean minimum, 23.5° , making a mean daily range of 6.5° . At Heber the mean maximum was 37.5° ; mean minimum, 6.5° , giving a mean daily range of 31.0° . The effect of the fog layer on the temperatures at the lower station in impeding the direct insolation by day, and correspondingly reducing the radiation by night, is strikingly noticeable in the small mean daily range. On the other hand, the large mean daily range at the more elevated station illustrates in a marked manner the intense insolation and radiation peculiar to higher altitudes. Unfortunately, no psychrometric observations are taken at Heber, and no comparison of the relative humidities during the period under discussion can therefore be made. Undoubtedly, these would show as great a contrast as the temperatures. At Salt Lake City, the mean of the daily humidity observations at 6 a. m. and 6 p. m. amounted to 89 per cent—needless to state, abnormally high even for winter. The following is a brief explanation of the causes that produced such peculiar weather conditions: The primary cause was the stagnant condition of the atmosphere in the lower valleys, due to the high barometric pressure areas that overspread the Plateau region during these periods. In “highs” the barometric gradient is usually very slight, and as a consequence there is but little wind movement. This favors a stagnant condition of the atmosphere, in which the dust rapidly accumulates. These dust particles favor

a strong radiation at night, and in consequence the air is cool. The cooling process is also materially aided by accumulation of cold air that has been cooled by radiation on the high mountain whence it settles into the valley bottoms by reason of its greater specific gravity, cold air always being heavier than warm air. The cold air then remains in the valleys, the wind movement not being sufficiently strong to stir it up. There is thus a constant supply of cold air moving down into the valley, where it continues to cool through radiation from the valley floor, until at last the temperature falls below the dew point, and condensation of the vapor into visible water drops results. These water particles remain suspended in the atmosphere, and thus the phenomenon of fog is produced, and the air being cooled below the freezing point, the vapor or moisture in the atmosphere condenses in the form of ice or frost upon all objects, especially trees and other foliage, presenting a typical and beautiful winter scene.

MISCELLANEOUS PHENOMENA.

Halos, lunar.—Marysville, 8; Modena, 14; Richfield, 2.
Corona, lunar.—Marysville, 28.
Earthquakes.—Coyote, 21; Marysville, 20.
Halos, solar.—Marion, 11; Richfield, 14.
Eclipse, lunar.—Henefer, 9; Mt. Pleasant, 9.
Thunderstorms.—Henefer, 28; Levan, 28; Marion, 25; Mt. 28; Nephi, 19, 28; Vernal, 28.
Hail.—Heber, 24, 28; Henefer, 28; La Sal, 13; Levan, 19, 22, 28; Marysville, 21, 28; Modena, 12; Nephi, 15, 19, 28.
Sleet.—Castle Rock, 15, 21, 22, 28; Cedar City, 21, 27; Heber, 21, 28; Henefer, 15, 28; Huntsville, 19, 21; Levan, 19, 21, 28; Marion, 15, 28; Marysville, 21, 28; Meadowville, 15, 19, 21; Modena, 23; Morgan, 21, 25; Mt. Nebo, 15, 19, 28; Nephi, 19, 28; Piute, 28; Ranch, 23; Sunnyside, 15, 28; Utah Lake Pumping Station, 12, 19, 21; Vernal, 15.

CORRECTIONS TO DECEMBER REPORT.

Page 8: Trout Creek—Precipitation on the 27th recorded .50 should be .05; precipitation on the 29th recorded T., should be .05; total precipitation for the month recorded .13, should be .18.

Page 5: Trout Creek—Total precipitation recorded .13, should be .23.

WATER STAGES.

The level of the Great Salt Lake gradually rose during the month, the stages being as follows: On February 1st, 0.8 ft. below zero; February 15, 0.7 below, and March 1st, 0.5 below zero.

COMPARATIVE DATA FOR FEBRUARY.

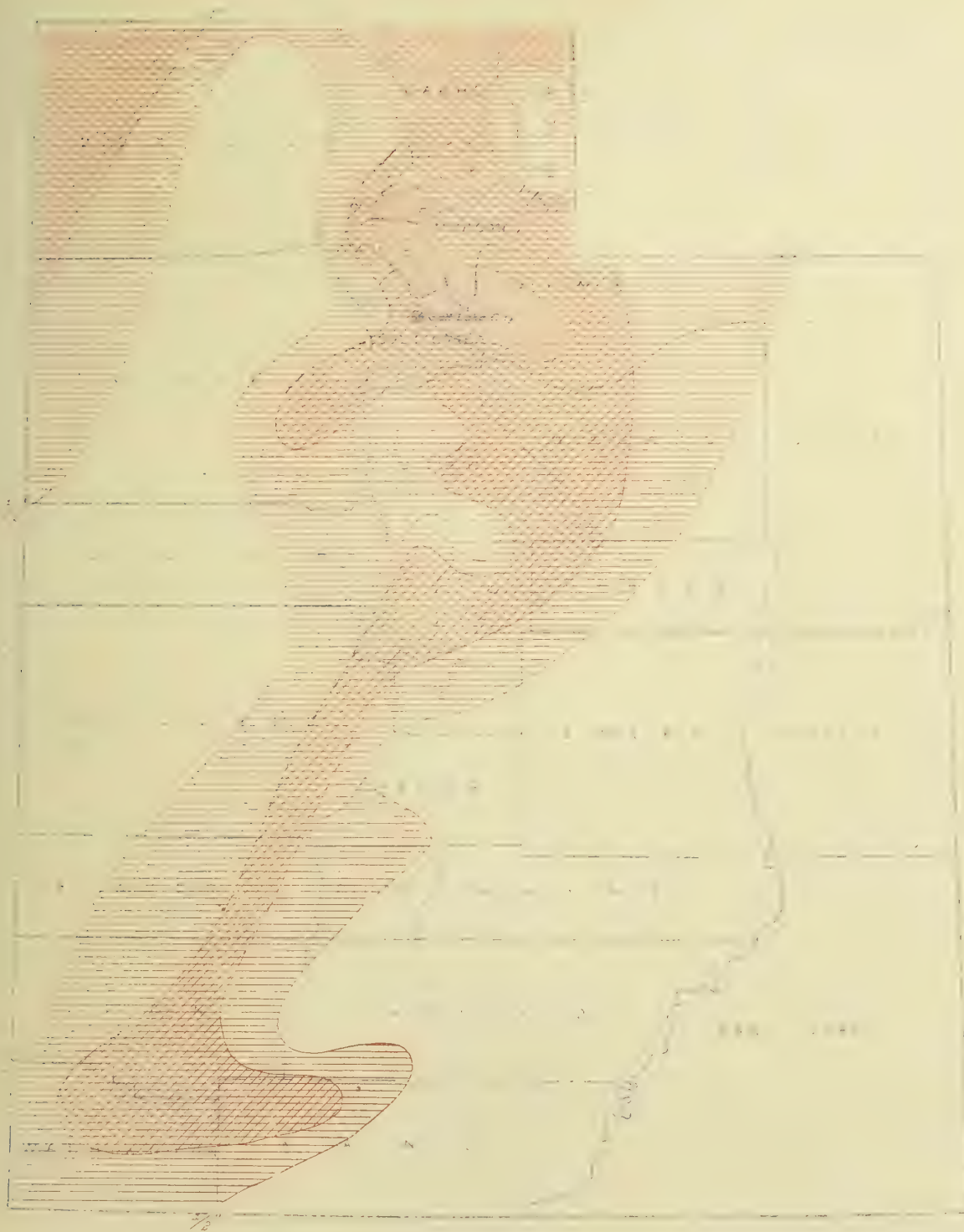
Year.	Mean temperature	Maximum temperature	Minimum temperature.	Average precipitation
1892	32.4	73	—34	0.77
1893	26.6	70	—32	1.35
1894	20.9	68	—34	1.11
1895	25.5	74	—33	1.25
1896	31.0	74	16	0.46
1897	27.0	63	—21	2.35
1898	29.1	69	21	0.47
1899	28.8	77	—50	1.73
1900	32.2	73	—24	0.57
1901	31.0	75	—26	1.90
1902	34.1	74	—20	0.87
1903	16.6	67	—39	0.75
1904	34.2	89	—26	1.53
1905	30.5	73	—35	1.67
1906	33.7	84	—15	0.88

CLIMATOLOGICAL DATA, FEBRUARY, 1906.

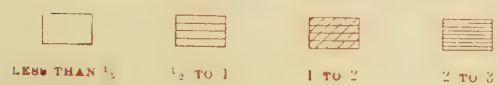
Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches				Sky				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Deepest from the normal	Greatest in 24 hours	Total snowfall (in melted)	Days with at least one inch of snow	Number of clear days	Number partly cloudy days			Number cloudy days
NORTHERN.																				
Albany	Utah	4,900	13	29.7	-0.2	52	15	8	27	1.16	-0.78	0.42	...	6	9	6	22	...	T. B. Whitby	
Albany	Box Elder	4,900	10	20.0	...	...	...	...	...	...	-0.52	0.20	7.0	7	...	...	...	...	Agent So. Pacific R. R.	
Albany	Cintia	4,900	10	20.0	...	...	...	...	...	...	-0.16	0.36	7.8	7	16	8	1	sw	Frank Tucker.	
Albany	Davis	4,900	6	34.8	+3.1	55	18	21	24	2.56	+0.21	0.96	20.0	7	4	6	8	nw.	Charles Bowlin.	
Albany	Utah	4,900	18	18.7	-0.5	18	28	15	39	0.30	-0.14	0.30	...	1	18	9	1	...	Post Surgeon.	
Albany	Wasatch	5,606	13	28.4	+6.0	50	27	...	31	1.58	-0.52	0.45	9.0	11	18	8	19	s.	John Crook.	
Albany	Summit	5,301	7	28.4	+4.4	51	21	1	7	19	1.90	-0.08	0.43	10.0	10	12	6	10	...	William Fowler.
Albany	Weber	4,900	11	...	...	...	...	...	...	1.82	-0.44	0.48	8.0	8	9	9	10	...	Lars Peterson.	
Albany	Box Elder	4,900	11	...	...	...	...	...	...	0.16	-0.47	0.10	...	2	5	14	...	nw.	Agent So. Pacific Co.	
Albany	Cañon	4,900	5	28.6	+3.4	55	27	5	8	2.02	+0.84	...	...	6	...	...	...	...	J. B. Nelson.	
Albany	Box Elder	4,900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Agent So. Pacific R. R.	
Albany	Rich	6,200	7	22.3	+0.7	45	28	1	9	28	1.10	-0.74	0.40	8.0	4	9	4	15	sw.	J. S. Molan.
Albany	Morgan	5,680	2	28.0	...	53	27	4	8	39	1.05	...	0.58	7.8	8	11	7	9	sw.	T. R. G. Welch.
Albany	Cassia	4,701	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Thomas Adams.	
Albany	Weber	4,348	5	31.3	+1.1	52	28	10	5	20	2.11	+0.55	0.66	5.8	11	8	5	13	nw.	Enoch Farr.
Albany	Weber	4,348	36	35.2	+2.1	57	27	23	17	...	1.38	...	0.39	7.8	8	6	0	22	s.	W. H. Cheyvers.
Albany	Summit	7,800	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	P. S. McKimmins.	
Albany	Bannock	4,483	6	33.4	7.4	51	27	6	5	25	1.35	...	0.51	4.9	7	11	10	7	se.	Weather Bureau.
Albany	Rich	...	...	...	...	...	...	...	...	0.30	...	0.15	5.5	4	18	4	6	sw.	Wm. Rex.	
Albany	Salt Lake	...	2	33.3	...	58	27	22	1	22	0.57	...	0.24	1.8	6	...	...	...	Francis W. Bailey.	
Albany	Salt Lake	4,300	32	31.2	+1.3	50	27	22	4	26	1.96	+0.68	0.60	11.4	10	1	9	18	se.	Section Center.
Albany	Box Elder	4,200	10	28.2	1.1	49	17	8	6	34	0.40	...	0.15	...	4	9	11	8	s.	Joseph Robbins.
Albany	Wasatch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	A. B. Larson.	
Albany	Tooele	4,000	10	33.0	+1.1	59	27	19	6	26	1.87	+0.46	0.60	...	6	4	5	10	n.	L. J. Elkington.
Albany	Cintia	...	10	20.6	-2.1	43	28	4	3	33	0.29	-0.42	0.13	1.5	4	20	5	3	...	Joab Collier.
Albany	Oncida	4,460	8	26.6	...	46	21	4	6	31	1.70	...	0.45	5.5	9	9	4	15	s.	William Chatterton.
Albany	Rich	6,500	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Thomas Ashton.	
Averages				28.8	+1.1	...	...	...	...	1.29	-0.17	...	8.5	6	9	7	12	s.		
MIDDLE.																				
Albany	Millard	4,872	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Willard Burbank.	
Albany	Emery	5,500	7	29.1	+2.9	53	28	0	3	41	T.	-0.77	T.	0.0	0	...	...	...	James Jeffs.	
Albany	Grand	4,385	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ag. Rio Grande W. R. R.	
Albany	Millard	4,541	12	31.8	+5.1	68	27	16	26	13	0.41	-0.52	0.10	2.0	4	7	1	20	n.	S. W. Western.
Albany	Emery	6,260	6	35.0	+7.1	52	16	18	1	28	0.20	-0.65	0.20	2.0	1	6	6	16	sw.	H. C. Wickman.
Albany	Millard	5,106	16	37.2	+4.9	71	27	20	13	39	1.16	-0.35	0.57	0.0	5	...	...	...	J. J. Starkey.	
Albany	Millard	...	2	35.1	...	64	27	14	3	41	T.	...	T.	0.0	0	11	7	9	n.	E. M. Smith.
Albany	Tooele	5,277	6	32.0	+2.3	56	27	11	23	26	0.95	-0.47	0.55	9.0	3	2	7	19	s.	Walter James.
Albany	Mesa	4,008	15	39.3	+7.8	61	28	22	20	30	0.40	-0.19	0.32	3.9	4	14	10	4	nw.	Weather Bureau.
Albany	Emery	4,080	9	30.8	+6.1	63	16	11	2	46	0.00	-0.67	0.00	0.0	0	20	1	6	...	Louis C. Farrer.
Albany	Tooele	...	2	39.6	...	61	27	10	2	40	0.90	...	0.60	9.0	2	3	11	14	...	Owen Sheridan.
Albany	San Pete	...	...	...	...	...	...	...	...	...	0.11	...	0.06	...	3	...	...	...	R. H. Spencer.	
Albany	Juab	5,010	16	32.4	+5.0	59	27	14	23	28	1.37	-0.22	0.44	8.1	7	7	9	12	n.	William Brown.
Albany	San Pete	5,575	12	32.8	+9.0	70	26	15	4	50	0.01	-0.89	0.19	...	5	9	14	5	...	W. M. Harmon.
Albany	Utah	4,050	5	33.0	+3.1	60	27	20	4	33	0.89	-0.67	0.16	1.0	7	4	11	13	n.	D. C. Walkey.
Albany	San Pete	5,859	14	31.2	+1.5	54	28	8	1	52	1.50	-0.39	0.60	9.0	6	8	0	20	...	Web Greene.
Albany	Juab	...	...	...	...	...	...	...	...	...	0.07	...	0.32	6.0	7	6	9	13	...	A. Madsen.
Albany	Millard	...	...	35.5	...	64	27	18	9	32	0.91	...	0.40	5.0	6	4	11	13	sw.	J. Finlinton.
Albany	Utah	4,637	...	...	...	...	...	...	...	...	1.89	...	0.67	16.0	6	4	12	12	sw.	W. C. Wightman, Jr.
Albany	Utah	4,532	14	34.5	+1.5	58	28	24	1	26	0.90	-0.55	0.40	7.0	4	4	9	15	se.	W. K. Henry.
Albany	Sevier	...	16	36.8	+5.4	69	27	19	13	41	0.29	-0.50	0.13	...	5	16	8	4	...	Anton Nielsen.
Albany	Millard	5,260	11	35.5	+5.3	63	27	17	6	34	1.08	-0.74	0.19	2.0	10	2	7	19	sw.	Thomas Memmott.
Albany	Utah	7,174	14	24.0	+2.2	42	17	3	7	33	1.65	-0.06	0.50	13.0	7	10	0	18	sw.	Agent Rio Grande R. R.
Albany	Utah	5,775	14	33.2	+4.2	60	18	10	7	39	1.50	+0.09	0.60	14.0	4	18	4	6	...	Ag. Rio Grande W. R. R.
Albany	Juab	...	...	33.8	...	60	20	17	6	36	0.43	...	0.30	4.5	2	2	15	11	...	E. E. Edwards.
Albany	Utah	...	1	32.3	...	52	20	21	11	28	0.54	...	0.14	1.5	8	1	5	22	n.	W. A. Knight.
Albany	Carbon	5,540	7	...	...	...	...	...	...	...	0.79	-0.41	...	6.0	4	6	8	14	n-sw.	E. E. Branch.
Averages				33.3	+4.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTHERN.																				
Albany	San Juan	4,800	6	41.6	+4.9	67	27	20	1	35	T.	-0.67	T.	T.	0	20	6	2	W.	Miss S. Hubert.
Albany	Beaver	...	1	35.4	...	63	21	12	2	39	1.09	...	0.55	...	3	...	...	...	A. B. Anderson.	
Albany	Iron	...	...	37.4	...	60	26	8	28	31	1.28	...	0.56	8.2	4	4	13	11	sw.	Prof. R. V. Smith.
Albany	Garfield	...	5	30.1	+2.9	59	27	0	1	45	0.10	-0.22	0.10	1.0	1	19	5	4	...	H. J. McCullough.
Albany	Garfield	5,700	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. G. Bleak.
Albany	Washington	...	1	47.0	...	70	27	21	7	42	...	...	...	...	6	0	22	...	Joseph T. Atkin.	
Albany	Beaver	7,318	12	36.2	+2.9	59	27	14	5	39	0.56	-0.19	0.28	0.0	5	10	5	13	s.	S. N. Slaughter.
Albany	Wayne	4,000	11	41.1	+10.9	66	15	19	11	41	0.20	-0.14	1.00	0.0	3	20	6	2	...	J. C. White.
Albany	San Juan	...	1	40.4	...	71	28	19	23	40	T.	...	T.	T.	0	17	7	4	...	Joseph D. Lyman.
Albany	Garfield	3,000	7	40.4	+5.0	69	27	25	8	38	0.22	-0.52	0.22	0.0	1	19	7	2	...	E. W. Gibbons.
Albany	Kane	4,925	6	38.0	...	66	27	13	8	46	T.	-1.64	T.	0.0	0	16	...	6	...	F. M. Ford.
Albany	San Juan	7,000	6	32.5	+5.3	50	2	19	8	29	...	...	...	...	11	5	2	...	...	Mrs. G. W. Carpenter.
Albany	Wayne	7,000	14	22.2	-1.7	45	28	5	1	37	0.15	-0.47	0.15	...	1	...	...	...	...	Michael Hansen.
Albany	Piute	6,180	7	33.8	+4.4	60	27	7	2	40	0.63	-0.64	0.30	4.3	6	8	8	12	s	John W. Henry.
Albany	Beaver	5,070	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. W. Dotson.
Albany	Grand	4,000	7	41.0																

Section and station	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.
NORTHERN.																																
Compton	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Examination	8	3	28	3	30	21	34	32	1	1	14	40	30	28	37	38	14	15	38	45	30	30	37	39	31	32	41	48	17	43	20	35.5
Farmington	8	3	31	3	32	23	32	32	3	30	30	38	30	31	47	40	50	58	47	31	37	38	41	47	45	50	50	39	44	38	41	36.4
Fort Duchesne	10	9	28	9	26	11	10	24	24	20	30	34	30	37	47	47	58	58	43	37	35	38	42	47	41	41	39	39	44	38	44	34.1
Hobbs	4	3	38	4	3	34	3	34	3	3	3	44	15	15	45	40	40	48	39	40	40	43	47	44	40	44	40	50	40	30	40.2	
Honolulu	4	3	38	4	3	34	3	34	3	3	3	44	15	15	45	40	40	48	39	40	40	43	47	44	40	44	40	50	40	30	40.2	
Kelton	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Logan	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Lucan	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Meadowville	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Morgan	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Oakley, Idaho	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Oakton No. 1	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Park City	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Pocatello, Idaho	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Salt Lake City	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Salt Lake City	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Snowville	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Strawberry Valley	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Tooele	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Utah Lake	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Vernal, Oregon	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Weston, Idaho	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Woodruff	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
SOUTHERN.																																
Black Rock	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Castle Dale	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Cisco	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Deseret	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Energy	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Fillmore	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Garrison	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Governor Creek	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Grand Junction	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Green River	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Hatch	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Levan	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Monti	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Mount Nello	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Mount Pleasant	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Oak City	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Provo	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Richtfield	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Richmond	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Sevier	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Shoshone	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Thistle Summit	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Tropic	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Trout Creek	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Utah Lake Pump-Station	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Wellington	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
SOUTHERN.																																
Booth	24	11	28	11	18	31	31	24	17	38	21	48	11	18	52	28	44	42	15	44	30	38	37	34	40	37	45	31	39	25	37	21.6
Beaver	24	11	28	11																												

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, FEBRUARY, 1906.

Sections and stations.	Day of month.																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine												.15			.27		.12		.42	.20													
Alta																																	
Blacksmith's Fork												T.	T.	T.	.20				.20		T.												
Castle Rock													.10		.13				.10		.35	.05	.29	.05	.10				.05				
Corinne													.05		.05				.20		.20	.20	.10					.10					
Evanston, Wyo													.03		.03				.16		.36	.07	.14		.19			.07					
Farmington											.10		.20						.20		.96	.40	.30					.40					
Ft. Duchesne																					.30												
Heber										*	.16	*	.08	T.	.10				.15	*	.45	.10	.12	.12					.30				
Honolulu										.03		.10		T.	.18	T.		.34		.43	.40	.29	.04	.05				.10					
Huntsville										T.		.17		T.	.15				.30		.48	.35	.13	.18				.06					
Kelton																			.06		.10												
Logan													.08	.27					.52				.51		.11				.53				
Lucin																																	
Marion												T.	T.	.10		.12			.10		1.25	T.	.20	T.	.10			.40					
Meadowville															T.	.35		.40		.15			*	.20									
Millville																.23			.43		.24	T.	.11										
Morgan											.02	T.		.08	T.	.12					.58	.26	.27	.09	.23								
Oakley, Idaho																																	
Ogden No. 1											.07		.04	.05	.29	.02		.66	.36		.45	.17	.22	.08									
Ogden No. 2									T.		.10		.15	T.	.12			.20		.39	.20	.12				T.			.10				
Park City																																	
Pocatello, Idaho																		.10	.20	T.	.16	.01	T.	.14				.54					
Randolph										T.		.02						.03			.15												
Saltair Beach												T.	.02		T.	.15			.10		.24	T.	.04	T.	T.				.02				
Salt Lake City	T.		T.	T.	T.	T.	T.	T.			.01		.05	.04	T.	.24			.29		.60	.31	.03	T.	.01				.38				
Snowville																		.10	.05		.60			.10				.15					
Strawberry Valley																																	
Tooele											.03				.05				.27		.57	.05							.60				
Vernal (near)															.02				.02		.13							.12					
Weston, Idaho												.04	.01	.09	.10				.45		.33		.10		.22				.36				
Woodruff																																	
MIDDLE.																																	
Black Rock																																	
Castle Dale																																	
Cisco																																	
Clear Creek																			.40														
Dorset													.14			T.			T.		.16	.04			.30				.60				
Emery													T.								T.		.20						.07				
Fillmore																.17			.06			.32	.04						.57				
Garrison												T.	T.	T.							T.	T.							T.				
Government Creek																				.55		.10							.30				
Grand Junction, Colo.													.05		T.						.01		.32						.02				
Green River																																	
Ibapah																								.60					.30				
Indianola														.03							.06												
Levan														T.	.18					.08	.44	.27	.09										
Manti														T.	T.	.10			T.		.19	.08	.16	T.	.07	.08			.24				
Mount Nebo							T.		T.						.07				.06		.15	.16	.04		.03				.08				
Mount Pleasant															.05				.28	.27	.20			.10				.60					
Nephi										.01				T.	.11				.12	.22	.25	.04	T.					.32					
Oak City															.06				.34		.40		.04	.03	.04				.40				
Payson											T.			T.	.17	T.			.28		.67	.10						.50					
Provo																T.	T.		.20	.20			.10	T.	T.								
Richfield																		.07			.13	.03	.04					.04					
Salina																																	
Scipio														.17	.07					.02	.18	.13	.06	.14	.09	.03			.19				
Soldier Summit												.05								.20	.20	.50	.10	.10					.50				
Sunny-side												T.				.20						.60	.20						T.	.60			
Thistle																.10					T.		.20										
Trout Creek																						.30							.13				
Utah Lake Pumping Station										T.	.02		.05		.10					.14	.10	.02	.03	T.					.08				
Wellington																																	
SOUTHERN.																																	
Aneth										T.																							
Beaver																						.16							.38				
Cedar City													T.	T.	.16						T.	.55	.01						.56				
Coyote												.10																					
Escalante																																	
Frisco	T.	T.	T.	T.	T.	T.	T.				T.		.03		T.				.02		.28	T.	.05						.18				
Giles													.06	.04								.10											
Grayson																							T.	T.									
Hite																																	
Kunab																																	
La Sal											T.	T.		T.	T.	T.						T.	T.						T.				
Loa																.15																	
Marys-ale (near)																.30	T.					.02	.16	.04	.04	T.			.07				
Minersville																																	
Monb												.02				.06					T.		.05	.03	T.				.04				
Modena												.05		.03	T.	.02																	

T indicates a trace of precipitation.

* Precipitation included in that of following day.

† Precipitation incomplete.

857. C
JUN 11
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

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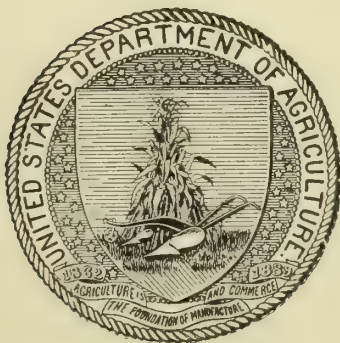
UNDER DIRECTION OF
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

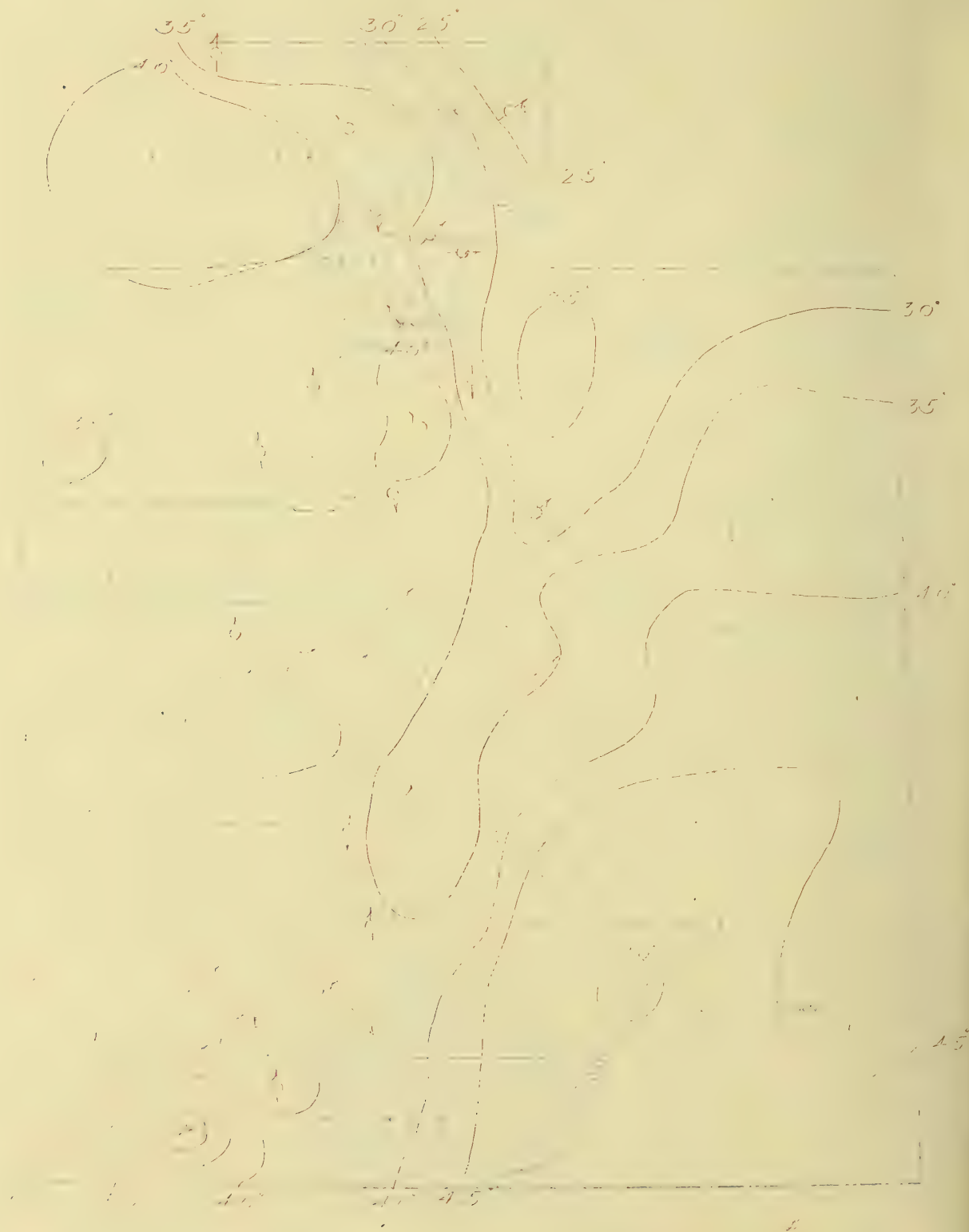
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
APRIL 28, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

L. VIII. SALT LAKE CITY, UTAH, MARCH, 1906. No. 5.

GENERAL SUMMARY.

While the average temperature was generally below the normal for the section, the records revealed no unusual features, except the effect of the prevailing cloudiness. The special feature of the month was, however, the precipitation, which was generally well distributed, and exceeded all previous records. The precipitation was chiefly in the form of snow during the first part of the month, but with the gradually rising temperature thereafter it became mixed with rain, which form of precipitation was general during the storms of the last decade. In consequence of these conditions, the valleys were generally denuded of their blanket of snow, and the unfrozen ground readily absorbed the water until it was thoroughly saturated. Another feature was the passage of a low barometric area over the State on the 12th and 13th that produced some damaging winds which did considerable local injury, the wind reaching a velocity of 60 miles per hour at Salt Lake City and Modena, Utah, during the storm.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 54 stations, was 38.0° , or 0.3° below the normal. The highest local monthly mean was 52.6° at Rockville; the lowest was 23.6° at Strawberry Valley. The highest temperature recorded was 86° at Grayson on the 31st; the lowest was 34° below zero at Strawberry Valley on the 19th, giving an absolute range for the month of 120° . The greatest daily range for any station was 64° at Grayson on the 8th. The highest temperatures of the month were generally recorded on the 8th, 10th, 29th and 30th, and the coldest generally occurred on the 16th and 19th.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 3.14 inches, or 1.42 inches above the normal. The snow was general, and increased gradually from north to south. The greatest monthly amount was 12.02 inches at Ranch, and the least 0.15 inch at Lucin. The greatest rainfall in any 24 consecutive hours was 3.85 inches at Ranch on the 12th. The precipitation was mostly snow, though considerable rain fell during the last decade. There was an average of 11 days with 0.01 inch or more of precipitation; 11 over the northern portion, and 10 over the middle and southern portions.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 4,677; at Modena, 9,611; at Grand Junction, Colo., 3,823; and at Pocatello, Idaho, 5,250. The maximum velocity at Salt Lake City was 60 miles per hour from the northwest on the 13th; at Modena, 60 miles from the southwest on the 12th; at Grand Junction, Colo., 30 miles from the southwest on the 13th; and at Pocatello, Idaho, 40 miles from the southeast on the 12th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 10; partly cloudy days, 8; cloudy days, 13. Determined from the records of automatic sunshine recorders, Salt Lake City had 40 per cent; Modena 45 per cent; Grand Junction, Colo., 41 per cent; and Pocatello, Idaho, 58 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 65 per cent, the lowest observed reading being 27 per cent on the 30th; at Modena, 68 per cent, the lowest observed reading being 19 per cent on the 8th; at Grand Junction, Colo., 64 per cent, the lowest observed reading being 16 per cent on the 10th; and at Pocatello, Idaho, 76 per cent, the lowest observed reading being 31 per cent on the 30th.

DEPTH OF SNOW IN THE MOUNTAINS.

The mountain snow supply was abundantly increased during March, and the amount of snow in the gulches and canyons surpassed all previous records generally over the section. Owing to the decided activity of the air currents, the snow was well drifted, and the gradually rising temperatures, with the precipitation of the last decade, which was nearly all in the form of rain, packed and hardened the snowfall in the mountains so that the prospects were very good for the supply to remain intact long after the first spring freshets. The high winds, warm weather and rains that produced the excellent condition for preservation of the deeper mountain snows tended rapidly to remove the snow from the valleys, which were virtually bare in most of the lowlands.

OBSERVERS' REMARKS.

Alpine.—This was a typical March; wind, rain, sunshine and snow alternating.—T. B. Whitby.

Aneth.—The month was about average; the fore part was very windy, with many sandstorms; during the latter half considerable moisture fell.—Miss Sophie Hubert.

Castle Rock.—Snowstorms were very severe during March.—David Moore.

Cedar City.—The rains during the last decade were of short duration, but of frequent occurrence.—R. V. Smith.

Corinne.—The month was quite stormy.—A. C. Murphy.

Deseret.—The month was very wet.—S. W. Western.

Elmery.—The month was very changeable.—H. C. Wickman.

Government Creek.—The month was wet and disagreeable.—Walter James.

Heber.—A very high wind prevailed on the 11th and 12th

that blew down fences and sheds. At the end of the month there was considerable snow in the mountains.—John Crook.

Henefer.—The month was very wet.—Wm. Brewer.

Huntsville.—The month was stormy and cloudy, but with the exception of the third week it was not very cold.—Lars Petersen.

Kanab.—The month, as a whole, was very warm.—E. M. Ford.

Marysvale.—The month was very wet and quite cold; the water supply was above the average.—John W. Henry.

Meadowville.—The mountains were well filled with snow at the close of the month.—J. S. Moffat.

Morgan.—The range of temperature during the month was very great; the mean was below the average.—T. R. G. Welch.

Mt. Nebo.—More precipitation fell during March than for the past four years.—D. C. Walkey.

Pinto.—The precipitation during the month was the greatest on record.—J. H. Harrison.

Panguitch.—High winds prevailed from the 11th to the 15th; the roads were impassable from the 13th to the 24th; considerable fresh snow fell in the mountains.—J. E. Steele.

Ranch.—During the month a greater amount of precipitation fell than was ever known before.—J. W. Seaman.

St. George.—Floods occurred in the Rio Virgen and Santa Clara valleys; considerable land was washed away.—Jas. G. Bleak.

Sunnyside.—The month was very stormy, and considerable water was stored.—Henry Cullum.

Tropic.—The precipitation during the month was very heavy; the depth of the snow was five feet on the level in the mountains, with heavy drifts.—E. P. Bolton.

MISCELLANEOUS PHENOMENA.

Earthquake.—Marysvale, 6.

Corona, solar.—Henefer, 26.

Coronae, lunar.—Richfield, 2; Tropic, 10.

Parhelia.—Henefer, 3; Vernal, 18, 31.

Paraselenae.—Moab, 3; St. George, 3; Snowville, 19, 29.

Halos, lunar.—Henefer, 8; Marysvale, 1, 2, 5; Salt Lake City, 9; Tropic, 3.

Halos, solar.—Henefer, 19; Marion, 19; Mt. Nebo, 2.

Hail.—Deseret, 13; Henefer, 13; Huntsville, 31; Levan, 13, 24-27; Marion, 31; Marysvale, 13, 14, 27; Meadowville, 13; Modena, 22, 25; Morgan, 13; Nephi, 25; Salt Lake City, 27; Tropic, 31; Vernal, 13.

Fog, dense.—Huntsville, 23; Meadowville, 7, 17, 23, 27; Salt Lake City, 5; Strawberry Valley, 19.

Thunderstorms.—Deseret, 22, 26; Ft. Duchesne, 24, 27; Henefer, 12; Huntsville, 12, 24, 31; Kanab, 17, 22; Meadowville, 13, 31; Moab, 4, 25; Morgan, 13, 24, 31; Ogden, 24; Panguitch, 13; Provo, 2; Salt Lake City, 13, 31; Tropic, 23, 24.

Sleet.—Castle Rock, 12, 18, 27, 31; Heber, 4, 13, 22; Henefer, 13, 22; Huntsville, 11; Levan, 26, 27; Marion, 12, 27; Meadowville, 4; Pinto, 12; Panguitch, 13, 14; Payson, 1, 4; Ranch, 11, 12, 15, 16; Salt Lake City, 24; Sunnyside, 11-14, 19, 27; Tropic, 12.

High winds.—Alpine, 12; Aneth, 1, 5, 6, 10-13, 15, 18, 31; Castle Rock, 13; Cedar City, 10-12, 31; Coyoto, 11; Deseret, 1, 4, 10-15, 23, 24, 31; Emery, 10, 11; Ft. Duchesne, 10, 13; Garrison, 3, 10-14, 23, 24, 30, 31; Giles, 11, 13, 31; Government Greek, 9-12; Grayson, 1, 10-12, 15, 18; Heber, 10, 11; Henefer, 13; Huntsville, 12; Kelton, 10, 12; Levan, 1; Marysvale, 10-12, 31; Moab, 10-15, 31; Modena, 12; Mt. Nebo, 11-13, 31; Ogden, 11, 14; Parowan, 13; Pinto, 10, 11, 31; Panguitch, 11-15; Payson, 11-13; Ranch, 31; Randolph, 1; Richfield, 10, 11; Salt Lake City, 1, 10, 12-14, 23, 31; Scipio, 10-15, 31; Tropic, 1, 13, 27.

LATE REPORTS.

JANUARY.

Enterprise: Total precipitation, 1.54 inches; greatest amount in any 24 consecutive hours, 0.64 inch on the 19th; total snow-

fall, 8.0 inches; number of days with 0.01 inch or more of precipitation, 4; clear days, 11; partly cloudy days, 11; cloudy days, 9; direction of wind, south.

Verdure: Total precipitation, 2.37 inches; greatest amount in any 24 consecutive hours, 0.80 inch on the 2nd; number of days with 0.01 inch or more of precipitation, 7.

Annabella: Total precipitation, 2.36 inches; greatest amount in any 24 consecutive hours, 0.93 inch on the 20th; total snowfall, 27.0 inches; number of days with 0.01 inch or more of precipitation, 4.

Nephi, Experiment Farm: Total precipitation, 1.48 inches; greatest amount in any 24 consecutive hours, 0.96 inch on the 20th; number of days with 0.01 inch or more of precipitation, 1; clear days, 7; partly cloudy days, 5; cloudy days, 19; direction of wind, southwest.

Parowan, Experiment Farm: Total precipitation, 0.88 inches; greatest amount in any 24 consecutive hours, 0.42 inch on the 18th; number of days with 0.01 inch or more of precipitation, 1.

FEBRUARY.

Strawberry Valley: Mean temperature, record for 18 days, 74°; highest, 45° on the 17th; lowest, —25° on the 7th; greatest daily range, 56°; total precipitation, approximated, 1.1 inches; total depth of snow, 24.5 inches.

Silver Lake: Lowest temperature, —4° on the 7th; total precipitation, 10.70 inches; total snowfall, 40.0 inches; number of clear days, 8; partly cloudy days, 10; cloudy days, 10; direction of the wind, northwest.

CORRECTIONS.

JANUARY.

Page 5: Soldier Summit—Mean monthly temperature recorded 17.5°, should be 17.6°.

Page 6: Mt. Nebo—Maximum on the 20th recorded 33°, should be 37°. Soldier Summit—Maximum on the 20th recorded 20°, should be 29°; mean monthly maximum recorded 27°, should be 27.4°. Emery—Minimum on the 17th recorded 2°, should be 20°.

FEBRUARY.

Page 13: Rockville—Total precipitation recorded 0.70 inch, should be 0.86; number of days with 0.01 inch or more of precipitation recorded 4, should be 5.

Page 16: Rockville—Precipitation on the 10th recorded * should be *; 11th blank, should be 0.16; total precipitation recorded 0.70, should be 0.86 inch.

WATER STAGES.

The level of the Great Salt Lake on March 1st was 0.5 ft. below zero; March 15th, zero; and April 1st, 0.1 above.

COMPARATIVE DATA FOR MARCH.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	40.0	83	4	1.52
1893	35.6	87	—19	2.05
1894	36.6	85	—22	1.66
1895	37.0	87	—15	1.24
1896	38.0	88	—7	0.99
1897	32.0	75	—16	2.22
1898	34.2	80	—14	1.24
1899	38.5	84	—3	2.46
1900	43.9	86	6	0.19
1901	36.8	78	—2	0.84
1902	34.9	73	—9	1.28
1903	37.3	80	—32	1.19
1904	39.9	90	—10	2.33
1905	42.2	83	0	1.76
1906	38.0	86	—34	3.14

CLIMATOLOGICAL DATA, MARCH, 1906.

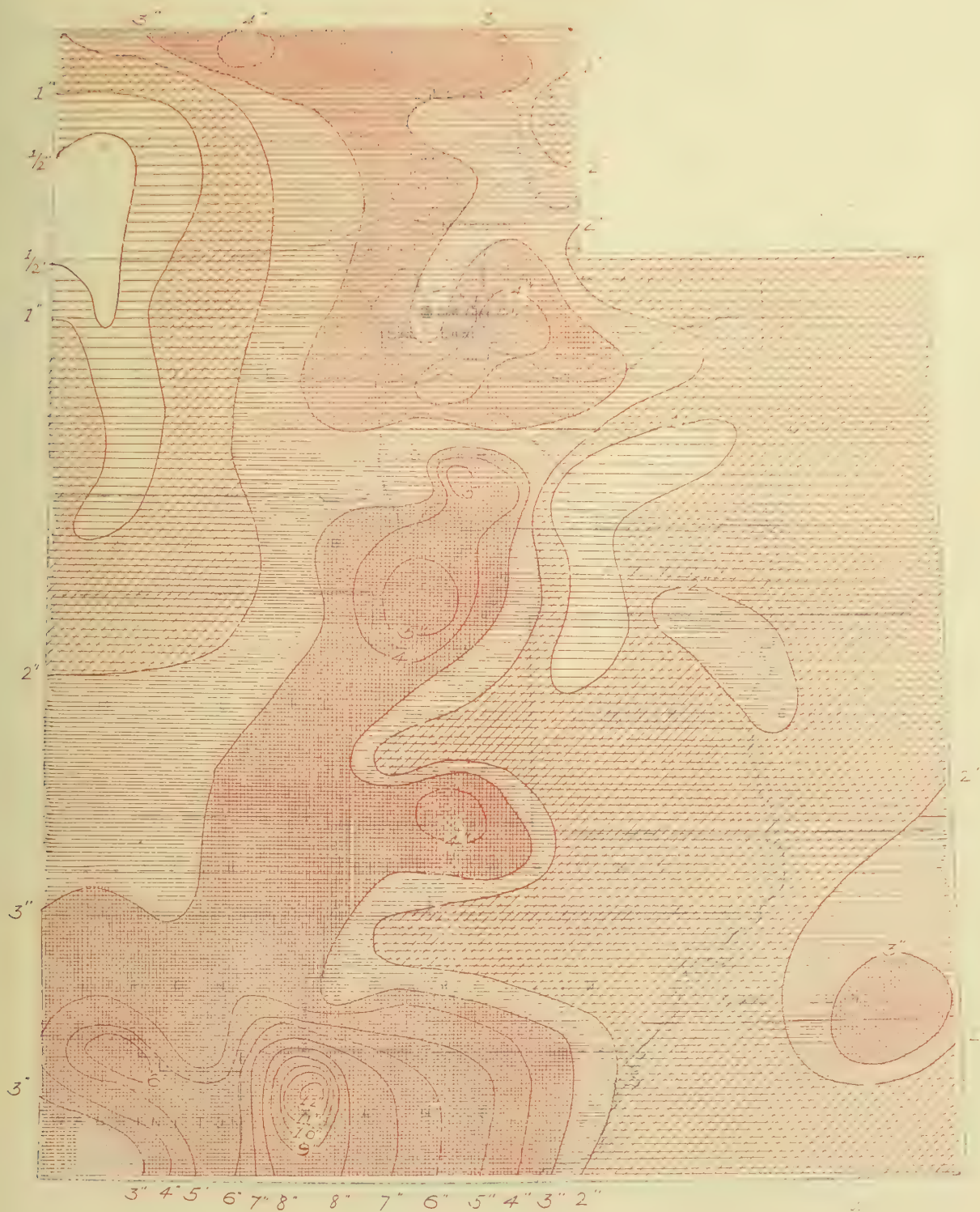
Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit							Precipitation, in inches				Sky				Prevailing winds	Observations
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Deepest frost	Greatest of 24 hours	Total snowfall (in water)	Days with frost	Number of days	Number of days			
NORTHERN.																				
Albion, Wyo.	Box Elder	4,240	30	39.1	+1.9	61	29	12	15	31	1.37	+1.97	0.87	1.00	1	16	1	16	Ag. Rio Grande W. R. R.	
Albion, Wyo.	Uinta	9,250	12	28.4	-2.6	39	19	2	16	1	2.20	+1.71	0.00	0.00	1	13	1	13	Land Truck	
Albion, Wyo.	Davis	4,240	12	30.6	.....	62	30	1	16	30	2.95	+1.71	0.46	0.00	1	13	1	13	Charles Boylin
Albion, Wyo.	Wasatch	5,600	13	30.6	+0.3	60	31	1	19	29	3.93	+1.71	0.00	0.00	1	13	1	13	Post S. M. Co.	
Albion, Wyo.	Summit	5,300	14	30.2	-1.7	60	30	21	16	18	1.35	+1.02	0.62	25.0	20	1	1	1	John Cron	
Albion, Wyo.	Webster	5,300	14	30.2	-1.7	60	30	21	16	18	1.35	+1.02	0.62	25.0	20	1	1	1	William Brewer	
Albion, Wyo.	Box Elder	4,240	30	30.1	+1.9	61	29	12	18	31	1.37	+1.97	0.87	1.00	1	16	1	16	Lars Petersen	
Albion, Wyo.	Cache	4,240	30	30.1	+1.9	61	29	12	18	31	1.37	+1.97	0.87	1.00	1	16	1	16	Ag. Rio Grande W. R. R.	
Albion, Wyo.	Box Elder	4,240	30	30.1	+1.9	61	29	12	18	31	1.37	+1.97	0.87	1.00	1	16	1	16	J. E. Nelson	
Albion, Wyo.	Rich	6,200	7	24.4	-4.2	50	21	22	16	3	0.15	+1.93	0.70	27.0	11	9	8	1	Ag. Rio Grande W. R. R.	
Albion, Wyo.	Cache	4,240	11	31.2	.....	62	30	1	16	30	2.95	+1.71	0.46	0.00	1	13	1	13	J. S. Moffat
Albion, Wyo.	Morgan	5,180	3	31.2	.....	62	30	1	16	30	2.95	+1.71	0.46	0.00	1	13	1	13	Fred Yates
Albion, Wyo.	Cassia	4,100	13	30.8	-2.1	61	31	8	16	2	3.05	-0.06	0.92	14.0	9	14	9	7	T. R. G. Welch	
Albion, Wyo.	Webster	4,310	5	37.8	-2.1	61	31	8	16	2	3.05	-0.06	0.92	14.0	9	14	9	7	Thomas Adams	
Albion, Wyo.	Webster	4,310	5	37.8	-2.1	61	31	8	16	2	3.05	-0.06	0.92	14.0	9	14	9	7	Enoch Farr	
Albion, Wyo.	Summit	7,800	9	11.9	+0.6	68	30	1	16	3	4.18	+1.08	0.99	15.0	9	8	5	20	W. H. Chevers	
Albion, Wyo.	Bannock	4,483	6	30.0	-1.3	58	30	12	17	37	3.7	+1.27	1.23	26.5	17	8	11	9	P. S. McKimmins	
Albion, Wyo.	Rich	6,200	7	24.4	-4.2	50	21	22	16	3	0.15	+1.93	0.70	27.0	11	9	8	1	Weather Bureau	
Albion, Wyo.	Salt Lake	1,300	32	39.8	-1.8	68	3	15	16	20	3.45	+0.81	0.75	20.7	18	8	4	16	Wm. Rex	
Albion, Wyo.	Salt Lake	1,300	32	39.8	-1.8	68	3	15	16	20	3.45	+0.81	0.75	20.7	18	8	4	16	Francis W. Bailey	
Albion, Wyo.	Box Elder	4,240	16	33.4	+2.5	60	30	2	16	38	4.03	+2.47	1.28	14.0	14	8	12	8	Section Center	
Albion, Wyo.	Wasatch	4,990	9	38.9	-0.3	67	30	1	16	3	3.26	+1.23	0.82	12.0	15	7	9	8	Joseph Robbins	
Albion, Wyo.	Tooele	4,990	9	38.9	-0.3	67	30	1	16	3	3.26	+1.23	0.82	12.0	15	7	9	8	A. B. Larson	
Albion, Wyo.	Utah	4,990	9	38.9	-0.3	67	30	1	16	3	3.26	+1.23	0.82	12.0	15	7	9	8	I. J. Elkington	
Albion, Wyo.	Onida	4,460	8	33.3	.....	60	3	3	16	32	3.71	+0.78	0.78	9.5	14	9	2	20	Joel Collier
Albion, Wyo.	Rich	6,200	9	35.0	+0.3	.....	.....	.....	.....	.....	2.83	+1.18	.....	18.7	11	10	8	13	William Chatterton
Averages																				
.....																				
MIDDLE.																				
Albion, Wyo.	Millard	4,872	6	31.3	-3.5	61	31	5	16	39	0.97	+0.53	0.23	.....	7	11	13	0	Thomas Ashton
Albion, Wyo.	Emery	5,200	7	31.3	-3.5	61	31	5	16	39	0.97	+0.53	0.23	.....	7	11	13	0	Willard Burbank
Albion, Wyo.	Grand	4,355	11	35.8	-1.4	68	10	1	16	50	2.10	+1.21	0.50	14.0	11	11	5	18	James Jeffs	
Albion, Wyo.	Millard	4,311	12	35.8	-1.4	68	10	1	16	50	2.10	+1.21	0.50	14.0	11	11	5	18	Ag. Rio Grande W. R. R.	
Albion, Wyo.	Emery	6,260	6	36.8	+2.0	68	8	5	19	33	1.30	+1.8	0.80	13.0	3	3	6	22	S. W. Western	
Albion, Wyo.	Millard	8,100	10	41.2	+0.7	68	23	5	17	37	3.88	+1.88	1.20	10.0	10	10	6	22	H. C. Wickman	
Albion, Wyo.	Millard	8,100	10	41.2	+0.7	68	23	5	17	37	3.88	+1.88	1.20	10.0	10	10	6	22	J. J. Starkey	
Albion, Wyo.	Tooele	5,277	5	35.8	-1.5	60	10	1	16	35	2.67	+0.10	0.45	12.5	11	11	6	23	E. M. Smith	
Albion, Wyo.	Mesa	4,608	15	12.0	-0.6	71	31	11	16	37	1.45	+0.62	0.48	5.1	13	7	9	18	Walter James	
Albion, Wyo.	Emery	4,080	9	35.0	.....	62	10	6	16	53	1.75	.....	0.70	10.0	5	8	16	7	Weather Bureau
Albion, Wyo.	Tooele	5,277	5	35.8	-1.5	60	10	1	16	35	2.67	+0.10	0.45	12.5	11	11	6	23	Louis C. Farrer	
Albion, Wyo.	San Pete	5,010	16	35.8	-0.4	61	30	5	16	31	5.09	+3.50	1.50	36.2	15	10	8	13	Owen Sheridan	
Albion, Wyo.	San Pete	5,010	16	35.8	-0.4	61	30	5	16	31	5.09	+3.50	1.50	36.2	15	10	8	13	R. H. Spencer	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	William Brown	
Albion, Wyo.	San Pete	5,880	14	30.2	.....	65	10	6	16	53	1.75	.....	0.70	10.0	5	8	16	7	W. M. Harmon
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	D. C. Walkey	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	W. C. Green	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	A. Madsen	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	J. Finlinson	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	W. C. Wightman, Jr.	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	W. K. Henry	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	Anton Nielsen	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	Thomas Menzies	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	Ag. Rio Grande W. R. R.	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	Ag. Rio Grande W. R. R.	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	E. E. Edwards	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	W. A. Knight	
Albion, Wyo.	Utah	4,950	5	30.3	-0.7	66	30	13	19	33	2.80	+1.24	0.48	12.0	15	5	13	13	E. E. Branch	
SOUTHERN.																				
Albion, Wyo.	San Juan	4,800	6	47.4	+2.1	73	31	19	2	12	1.06	+0.37	0.35	.....	9	11	9	8	Miss S. Hubert
Albion, Wyo.	Beaver	4,800	6	47.4	+2.1	73	31	19	2	12	1.06	+0.37	0.35	.....	9	11	9	8	A. B. Anderson
Albion, Wyo.	Iron	4,800	6	39.8	.....	61	16	10	1	33	3.78	.....	1.30	19.0	11	11	10	4	Prof. R. V. Smith
Albion, Wyo.	Garfield	5,700	5	35.4	.....	62	20	2	19	12	1.38	.....	0.40	.....	6	17	6	14	H. J. McCullough
Albion, Wyo.	Garfield	5,700	5	35.4	.....	62	20	2	19	12	1.38	.....	0.40	.....	6	17	6	14	W. G. Bleak
Albion, Wyo.	Washington	2	48.9	.....	75	8	21	1	45	.....	.....	.....	.....	.....	19	6	21	.....	Joseph T. Atkin
Albion, Wyo.	Beaver	7,318	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. N. Slaughter
Albion, Wyo.	Wayne	1,000	11	17.4	+5.4	70	11	19	10	8	1.03	+0.93	0.40	0.0	5	15	10	6	J. C. White	
Albion, Wyo.	San Juan	4	42.2	80	31	19	2	64	3.72	1.00	7.0	11	17	6	14	Joseph D. Lyman	
Albion, Wyo.	Garfield	3,666	7	50.																

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At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs. Temperatures below zero in boldface.

At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs. Temperatures below zero in boldface.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

541.05
UNH

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

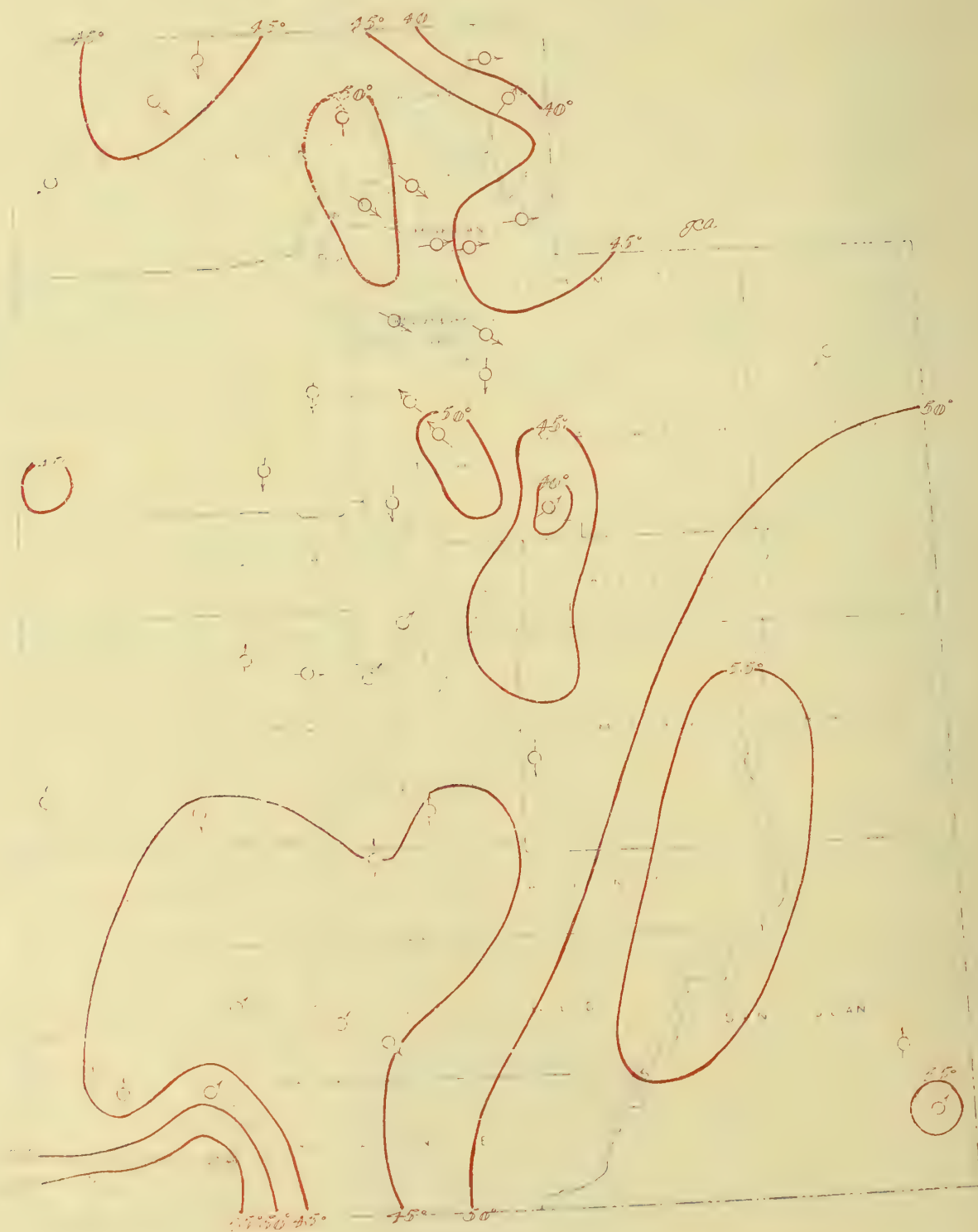
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

MAY 26, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VIII. SALT LAKE CITY, UTAH, APRIL, 1906. No. 6.

GENERAL SUMMARY.

While there were numerous short periods of warm, spring-like weather during the month, the intervening cold and stormy weather retarded progress, and caused general complaint of backward conditions. Nearly all of the precipitation was followed by periods of unseasonably low temperatures. An extensive low barometric area that passed over the section about the second of April accelerated rapidly in passing, and produced in its rear unusually low minimum temperatures throughout the State on the 3rd of the month. The weather during the following week was cold and blustery, with rain and snowstorms, but the second decade marked a brief period of nearly normal conditions. However, at the close of the second decade, low barometric pressure prevailed along the Pacific coast, and slowly advancing eastward, caused gradually rising temperatures throughout the State, reaching the highest temperature for the month from the 21st to the 23rd. The maximum wind velocities for the month occurred almost simultaneously with the highest temperatures. Rain or snow occurred at short intervals during the last decade of the month, with freezing temperatures.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 53 stations, was 48.0° , or 0.6° below the normal. The highest local monthly mean was 59.2° at Hite; the lowest was 39.0° at Soldier Summit. The highest temperature recorded was 94° at St. George on the 21st and 26th; the lowest was 5° at Ranch on the 2nd, giving an absolute range for the section of 89° . The greatest daily range for any station was 55° at Scipio and Giles on the 21st. The highest temperatures of the month were generally recorded on the 21st and 22nd, and the lowest generally occurred on the 2nd, 3rd and 13th.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 2.10 inches, or 0.92 inch above the normal. The excess was greatest over the middle portion of the section. The greatest monthly amount was 4.57 inches at Payson, and the least

0.20 inch at Lucin. The greatest precipitation in any 24 consecutive hours was 2.00 inches at Loa on the 6th. Considerable snow fell during the first week, but thereafter the precipitation was mostly rain. There was an average of 8 days with 0.01 inch or more of precipitation; 8 over the northern portion, 9 over the middle portion, and 7 over the southern portion.

WIND.

The prevailing direction of the wind for the section was north. The total number of miles recorded at Salt Lake City was 5,004; at Modena, 8,536; at Grand Junction, Colo., 4,044; and at Pocatello, Idaho, 5,819. The maximum velocity at Salt Lake City was 45 miles per hour from the southwest on the 23rd; at Modena, 58 miles from the southwest on the 23rd; at Grand Junction, Colo., 34 miles from the south on the 23rd; and at Pocatello, Idaho, 27 miles from the west on the 7th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 12; partly cloudy days, 9; cloudy days, 9. Determined from the records of automatic sunshine recorders, Salt Lake City had 56 per cent; Modena 38 per cent (for 17 days); Grand Junction, Colo., 54 per cent; and Pocatello, Idaho, 68 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 56 per cent, the lowest observed reading being 17 per cent on the 21st and 23rd; at Modena, 53 per cent, the lowest observed reading being 9 per cent on the 19th; at Grand Junction, Colo., 54 per cent, the lowest observed reading being 17 per cent on the 20th and 21st; and at Pocatello, Idaho, 57 per cent, the lowest observed reading being 14 per cent on the 21st.

OBSERVERS' REMARKS.

Aneth.—There were several windstorms, though probably no more than usual for this month.—Miss Sophie Hubert.

Alpine.—The month was cold, windy and wet.—Thomas B. Whitby.

Black Rock.—April was a remarkably wet month, and chilly, disagreeable weather was frequent, notwithstanding the average warm conditions.—Willard Burbank.

Deseret.—April was a very wet month, and frost was frequent, though as a whole the weather was favorable.—S. W. Western.

Giles.—April was a cold, windy month, with frequent light frosts.—John C. White.

Government Creek.—April was a cold, wet month, being slightly unfavorable.—Walter James.

Heber.—Very changeable weather prevailed throughout the month, with freezing temperatures.—John Crook.

Henefer.—Most of the month was cold and stormy; the season was backward.—Wm. Brewer.

Huntsville.—The month was very cold, except part of the third week, which was quite warm; the spring season was backward.—Lars Petersen.

Levan.—The weather was very changeable during the month.—Wm. Brown.

Marion.—The first spring-like weather occurred April 8th, on which date wild geese were observed flying northward; April 20th was very warm.—James Woolstenhulme.

Marysvale.—The month was cool and cloudy, and the season was backward; water was rising in the creeks, and the Sevier river was out of its banks.—John W. Henry.

Meadowville.—The weather during the month was generally favorable.—J. S. Moffat.

Mt. Nebo.—April was wet, and the season was delayed.—D. C. Walkey.

Richfield.—Some damaging frosts occurred.—Anton Nielsen.

Trout Creek.—The month was cloudy, and the season was backward.—E. E. Edwards.

MISCELLANEOUS PHENOMENA.

Rainbow.—Vernal, 9.

Halo, lunar.—Modena, 27.

Coronae, lunar.—Marysvale, 1, 3.

Halos, solar.—Parowan, 14; Ranch, 14; Marysvale, 15.

Coronae, solar.—Aneth, 27; Henefer, 2, 14; Marysvale, 15.

Parhelia.—Emery, 16; Marion, 2; Meadowville, 14; Payson, 2; Snowville, 22.

Frosts, killing—Black Rock, 26, 27; Deseret, 27; Enterprise, 12, 15, 18, 25; Giles, 5; Heber, 13; Henefer, 13; Huntsville, 26; Marysvale, 27; Mt. Nebo, 27; Richfield, 26.

Sleet.—Castle Rock, 1, 2, 25, 26; Cedar City, 1, 2, 4; Giles, 3; Government Creek, 29; Henefer, 25; Levan, 24, 26, 29; Marysvale, 24, 27; Meadowville, 30; Ogden, 25; Payson, 1, 3, 4; Salt Lake City, 30; Sunnyside, 5, 27, 29, 30; Tropic, 29; Utah Lake Pumping Station, 23, 25; Vernal, 11, 25.

Hail.—Blacksmith's Fork, 29; Castle Rock, 2, 24, 25, 29; Ft. Duchesne, 11; Government Creek, 29; Giles, 29; Henefer, 25; Levan, 11, 24, 29; Marysvale, 1, 11; Meadowville, 17, 30; Moab, 1, 28; Modena, 29, 30; Morgan, 25; Mt. Nebo, 25, 30; Nephi, 24, 25; Ogden, 25; Pinto, 5; Richfield, 2, 28, 29; Salt Lake City, 23; Theodore, 30; Tropic, 2, 3, 5, 6, 11, 29; Utah Lake Pumping Station, 17; Vernal, 24.

Thunderstorms.—Aneth, 6, 18, 28, 29; Alpine, 3; Black Rock, 1, 7; Castle Rock, 29; Cedar City, 29; Enterprise, 5, 6; Ft. Duchesne, 11; Giles, 5, 28, 29; Government Creek, 17; Henefer, 11, 17; Huntsville, 17, 23, 29; Levan, 11, 24, 29; Marysvale, 1, 5, 6; Meadowville, 11, 17, 29, 30; Moab, 1, 4, 6, 11, 26; Modena, 5, 6, 29; Morgan, 10, 16, 25; Mt. Nebo, 25; Nephi, 25; Ogden, 10, 24; Parowan, 6; Pinto, 5; Ranch, 5, 6; Randolph, 23; Richfield, 28, 29; Salt Lake City, 10, 17, 25; Snowville, 30; Theodore, 29, 30; Tooele, 10, 17, 28; Utah Lake Pumping Station, 17.

High winds.—Aneth, 1, 3-6, 11, 12, 18, 23, 26, 28, 29; Black Rock, 22, 23, 29; Castle Rock, 3, 23; Cedar City, 1, 2, 18, 23, 24; Coyoto, 23; Deseret, 3, 11, 12, 16, 23, 25, 26, 29; Emery, 6, 22; Enterprise, 1, 4, 10, 17, 21, 22; Garrison, 22, 23, 28; Giles, 23, 24; Government Creek, 23; Grayson, 23, 28; Heber, 23; Huntsville, 22, 23; Kanab, 22, 23; Levan, 23; Marion, 23; Marysvale, 12, 23; Meadowville, 23, 24; Modena, 23; Mt. Nebo,

23; Ogden, 3; Panguitch, 23; Pinto, 23; Randolph, 1; Salt Lake City, 1, 9-11, 17, 23, 24, 28; Scipio, 23; St. George, 1, 17, 18, 23; Theodore, 7, 23; Tropic, 4, 7, 10, 23-25, 28; Utah Lake Pumping Station, 2, 17; Vernal, 23.

LATE REPORTS.

MARCH.

Annabella: Total precipitation, 2.51 inches; total snowfall, 28.0 inches; number of days with 0.01 inch or more of precipitation, 7.

Cottonwood Creek Cabin (Ranger Cabin in the U. S. Forest Reserve): Mean monthly temperature, 29.3°; highest temperature, 56° on the 30th; lowest, —12° on the 16th; greatest daily range, 41°; total precipitation, 7.10 inches; greatest amount in any 24 consecutive hours, 1.00 inch; total snowfall, 71.0 inches; number of days with 0.01 inch or more of precipitation, 18; clear days, 6; partly cloudy days, none; cloudy days, 25; prevailing wind direction, northwest.

Farmington (record for 28 days): Mean monthly temperature, 38.6°, or 1.2° below the normal; highest temperature, 60° on the 23rd and 24th; lowest, 15° on the 2nd and 16th; greatest daily range, 29°; total precipitation, 3.72 inches, or 1.25 inch above the normal; greatest amount in any 24 consecutive hours, 0.88 inch; total snowfall, 25.8 inches; number of days with 0.01 inch or more of precipitation, 9; prevailing wind direction, north.

CORRECTIONS.

FEBRUARY.

Page 13: Pinto—Total snowfall recorded 9.0, should be 9.5 inches.

WATER STAGES.

The level of Great Salt Lake on April 1st was 0.1 of a foot above zero; on April 15th, 0.4 of a foot above; and on May 1, 0.5 of a foot above.

COMPARATIVE DATA FOR APRIL.

Year.	Mean temperature	Maximum temperature	Minimum temperature.	Average precipitation
1892	46.8	87	11	1.06
1893	44.4	88	1	1.15
1894	45.8	91	4	0.86
1895	49.2	94	5	0.58
1896	41.0	87	— 1	1.07
1897	47.0	53	6	0.89
1898	51.5	98	8	0.72
1899	48.2	90	11	0.58
1900	45.7	88	10	2.46
1901	46.2	89	0	0.69
1902	48.5	94	7	1.16
1903	46.0	95	4	1.01
1904	48.2	94	10	0.76
1905	48.7	88	9	1.47
1906	48.0	94	5	2.10

CLIMATOLOGICAL DATA, APRIL, 1906.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches				Sky				Observer	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (in melted)	Days with at least one inch of rain	Number of days	Number of days cloudy		Number of days clear
NORTHERN.																			
Alpine	Utah	4,900	10								3.47	+0.93	0.78	0.78	7	13	13	0	T. B. Whitby.
Alpine	Boxelder	4,740	36	50.2	-0.3	83	28	18	1	11	2.83	+1.73	0.71	5.0	8	6	18	0	Agent So. Pacific R. R.
Alpine	Uinta	9,980	10	30.8	+1.5	60	21	16	1	10	1.45	+0.07	0.24	8.0	11	12	0	12	Frank Tucker.
Alpine	Davis	4,297	0																Charles Boylin.
Alpine	Utah	5,000	18	19.0	+0.9	80	22	21	13	11	0.37	-0.33	0.10	0.5	5	13	11	0	Post So. Pacific Co.
Alpine	Wasatch	5,606	13	18.7	+1.6	70	21	26	13	16	1.3	-0.08	0.45	0.9	9	9	9	12	John Crook.
Alpine	Summit	5,364	2	11.6	+1.1	70	21	19	13	17	1.32	-0.23	0.31	1.0	11	12	8	0	William Brewer.
Alpine	Weber	5,100	11								2.17	+0.32	0.57	5.0	10	11	7	12	Lane Peterson.
Alpine	Boxelder	4,230	28	11.3	-8.6	60	22	26	10	30	0.54	-0.28	0.10	4.0	3	13	8	0	Agent So. Pacific Co.
Alpine	Cache	4,887	15	19.2	+2.1	72	10	23	3	41	2.47	+0.68	0.46	0.1	13	11	7	12	Agricultural College.
Alpine	Boxelder	6,200	1	45.8							0.20		0.20	2.0	1	23	4	0	Agent So. Pacific R. R.
Alpine	Rich	4,848	11								1.75	-1.11	0.55	6.0	7	11	6	10	J. S. Moffat.
Alpine	Cache	5,880	3	15.8							2.71	+0.77	0.57	0.7	13				Fred Yeates.
Alpine	Morgan	4,310	5	50.0	-0.4	78	22	19	14	53	1.2		0.15	10.0	10	8	3	0	T. R. G. Welch.
Alpine	Weber	4,370	30	55.2	+2.8	70	22	35	2		3.17	+0.93	0.84	6.5	9	13	9	7	Good Farm.
Alpine	Summit	7,800	9								1.44	+0.04	0.45	4.5	8	12	1	11	W. H. Chevers.
Alpine	Bannock	4,483	0	16.6	-0.2	79	22	22	3	30	1.16	-0.35	0.41	2.4	11	13	11	3	P. S. McKinnis.
Alpine	Rich		1								1.21		0.33	3.0	6	13	5	12	Weather Bureau.
Alpine	Salt Lake		2	48.0							3.57		1.70		9				Wm. Rex.
Alpine	Salt Lake	4,366	32	49.3	-0.2	78	21	28	2	30	3.58	+0.87	0.90	6.5	13	9	9	12	Francis W. Bailey.
Alpine	Boxelder	4,360	16	44.2	-1.9	78	22	20	12	18	1.51	+0.25	0.72		5	15	10	5	Section Center.
Alpine	Wasatch										0.47		0.14	0.5	6	6	5	13	Joseph Robbins.
Alpine	Tooele	4,900	10	48.0	-0.7	79	22	23	4	29	3.17	+1.40	0.61		9	15	6	9	A. B. Larson.
Alpine	Utah		11	48.0	-0.4	79	22	27	13	31	1.52	+0.78	0.52		10	16	6	8	M. M. Smith.
Alpine	Rich	6,500	9	47.2	+7.8	70	30	28	13	33	1.60	+0.79	0.80	14.0	4	15	8	6	I. J. Elkington.
Averages				47.2	-0.5						1.83	+0.55		4.7	8	12	8	10	Joab Collier.
MIDDLE.																			
Black Rock	Millard	4,872	6								3.31	+2.19	0.80	16.0	8	16	8	6	Thomas Ashton.
Black Rock	Emery	5,500	7	42.8	-2.4	70	22	12	3	46	2.71	+2.31	0.90		9	11	13	6	Willard Burbank.
Black Rock	Grand	4,385	11																James Jeffs.
Black Rock	Millard	4,511	12	48.8	+0.9	80	21	21	13	47	1.63	+0.66	0.70		8	14	2	11	Agt. Rio Grande W. R. R.
Black Rock	Emery	6,260	0	45.2							2.07	+1.99	1.10	0.0	4	7	0	23	S. W. Western.
Black Rock	Millard	5,100	10	48.2	-1.3	82	21	20	3	44	4.38	+2.57	1.66		12				H. C. Wickman.
Black Rock	Tooele		3	47.7							1.58		0.75		6	8	12	10	J. J. Starley.
Black Rock	Mesa	5,277	6	45.1	-1.5	73	*21	15	4	35	3.63	+2.23	0.80	16.0	10	13	7	10	E. M. Smith.
Black Rock	Emery	4,608	15	52.2	-1.0	80	22	31	3	33	1.78	+1.12	0.87	T.	13	10	11	9	Walter James.
Black Rock	Tooele	4,080	9	55.8	+2.2	85	23	29	4	51	3.50	+3.06	1.00		3	19	4	7	Weather Bureau.
Black Rock	Sanpete		3	44.4							1.42		0.40	3.2	3	9	18	3	Louis C. Farrer.
Black Rock	Sanpete										0.21		0.07		6				Owen Sheridan.
Black Rock	Sanpete	5,010	16	45.3	-9.6	76	22	18	4	39	3.77	+2.16	1.28	11.2	14	14	7	9	R. H. Spencer.
Black Rock	Utah	5,575	12	40.5	-1.1	77	15	23	3	37	3.37	+2.56	1.55		11	0	21	4	William Brown.
Black Rock	Utah	4,950	5	48.4	-1.3	77	10	26	4	40	2.26	+1.66	0.42		14	10	12	8	W. M. Harmon.
Black Rock	Sanpete	5,859	14																D. C. Walkey.
Black Rock	Sanpete																		Web Greene.
Black Rock	Sanpete																		A. Madson.
Black Rock	Sanpete																		J. Finlison.
Black Rock	Sanpete																		D. L. Combs.
Black Rock	Sanpete																		W. K. Henry.
Black Rock	Sanpete																		Anton Nielsen.
Black Rock	Sanpete																		Thomas Memmott.
Black Rock	Sanpete																		Agent Rio Grande R. R.
Black Rock	Sanpete																		Agt. Rio Grande W. R. R.
Black Rock	Sanpete																		E. E. Edwards.
Black Rock	Sanpete																		W. A. Knight.
Black Rock	Sanpete																		E. E. Branch.
SOUTHERN.																			
Beaver	San Juan	4,800	6	55.7	+1.4	82	22	27	2	39	0.55	+0.11	0.30		4	17	11	2	Miss S. Hubert.
Beaver	Beaver		1	42.6							1.62		0.75		5				A. B. Anderson.
Beaver	Iron		2	48.6							1.77		0.34	3.0	10	7	18	5	Prof. R. V. Smith.
Beaver	Garfield		5	41.0	-1.2	71	21	8	2	49	2.00	+1.30	0.50	2.5	8	10	10	10	H. J. McCullough.
Beaver	Garfield	5,700	0																Geo. H. Barney.
Beaver	Washington		2	55.8															Joseph T. Atkin.
Beaver	Beaver	7,318	12																Prof. Albert Warren.
Beaver	Wayne	4,600	11	51.8	+3.3	88	21	31	5	55	1.22	+0.73	0.95		5	20	7	3	J. C. White.
Beaver	San Juan		1	52.1							1.69		0.60	4.0	6	17	6	7	Joseph D. Lyman.
Beaver	Garfield	3,600	7	59.2	+0.1	87	22	35	1	37	0.39	+0.08	0.21		3	12	17	1	F. W. Gibbons.
Beaver	Kane	4,925	6								0.30		0.20		2	14	0	15	E. M. Ford.
Beaver	San Juan	7,000	6																Mrs. G. W. Carpenter.
Beaver	Wayne	7,000	14	41.8	+1.2	76	16	17	3	46	3.00	+2.50	2.00	30.0	2				Michael Hansen.
Beaver	Piute	6,180	7	45.0	-0.7	77	21	22	*13	50	1.47	+0.83	0.61	1.2	13	6	7	17	John W. Henry.
Beaver	Beaver	5,670	9																R. W. Dotson.
Beaver	Grand	4,000	17	53.6	-1.8	85	22	27	3	46	1.72	+1.28	0.95		10				Henry Crouse.
Beaver	Iron	5,379	0	45.2	-0.3	71	21	22	2	40	2.91	+2.02	0.91	4.6	11	9	8	13	Weather Bureau.
Beaver	Iron	5,975	15	43.8	-3.2	70	21	15	3	41	1.95	+0.76	0.40	10.0	12	5	17	5	James Connell.
Beaver	Washington	5,977	9	42.8	-1.4	71	*21	19	2	43	2.5	+1.24	0.78		10	9	5	16	J. H. Harrison.
Beaver	Sevier	7,600	4	42.0	-0.2	71	21	20	*3	38	2.40	+1.20	0.61	17.9	16	9	13	8	W. H. Schock.
Beaver	Kane	6,700	5	41.0	-1.0	70	20	5	2	42	2.55	+1.08	0.78		8	12	7	11	J. W. Seaman.
Beaver	Washington		3	48.1							1.38		0.50		5	12	0	18	E. R. Daley.
Beaver	Washington	2,880	20	58.0	+1.4	89	*21	20	2	50	0.90	+0.56	0.49		5	26	4	0	J. G. Bleak.
Beaver	Wayne		1																J. C. Jacobs, Jr.
Beaver	Garfield	7,600	9	45.0	+1.1	72	*21	21	1	38	1.95	+0.95	0.74	10.0	5	7	14	0	E. P. Bolton.
Averages				49.1	-0.1						1.68	+0.83		6.6	7	12	9	9	n-sw.
State averages				48.0	-0.6						2.10	+0.92		6.8	8	12	9	9	n.

Figures following name of station indicate the number of days missing from the record, and when accompanied by letters indicate division of table to which figures apply, e. g., 14—four days missing from temperature record.

All records are used in determining State (or district) means, but the departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

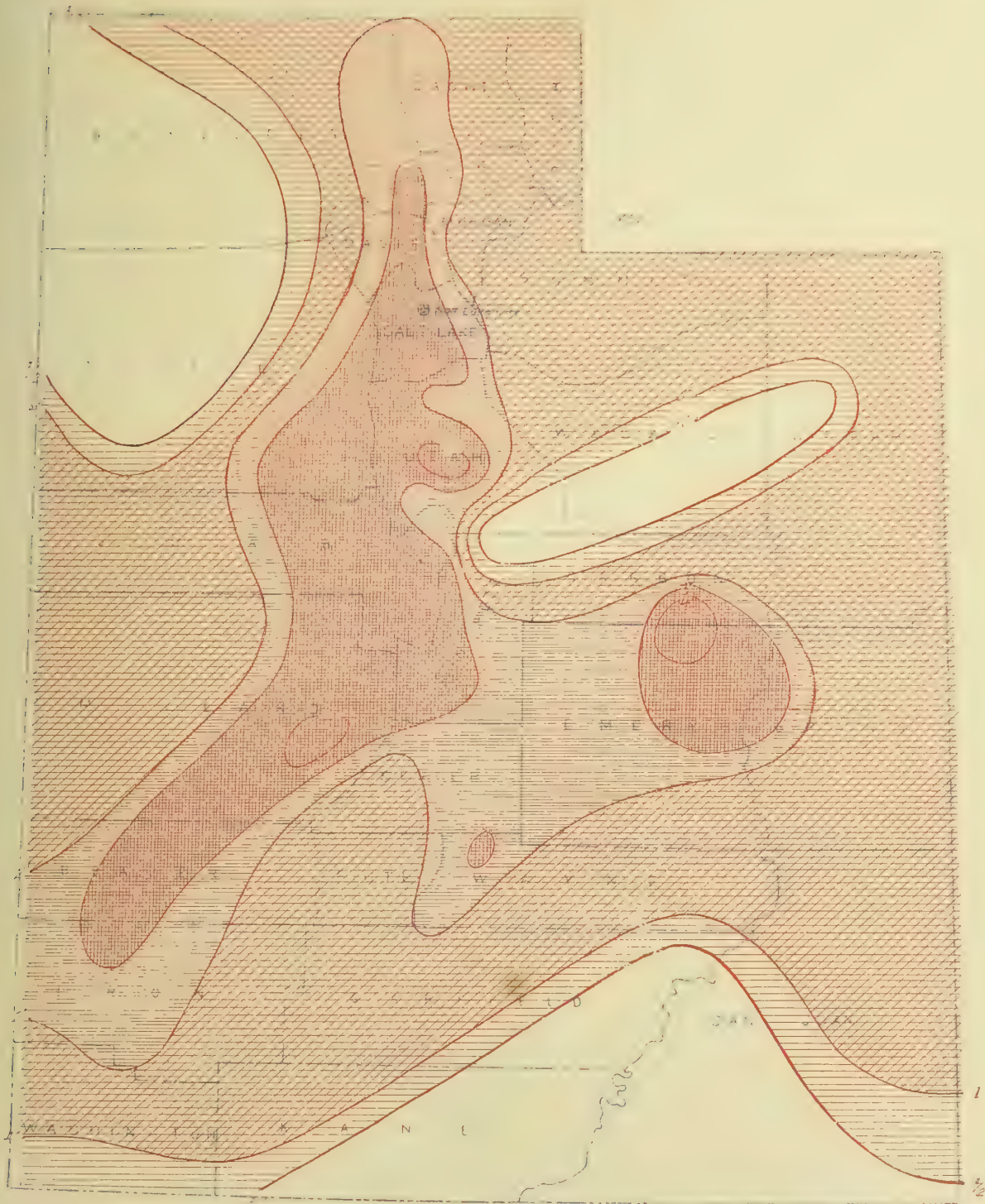
* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m. and 9 p. m. readings. ‡ Thermometers not supplied by Weather Bureau.

Precipitation averages are obtained from Page 8, as lack of space prevents the publication of all rainfall records on this page.

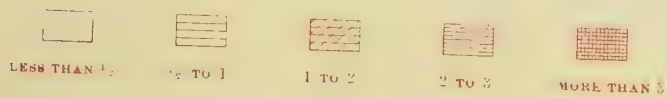
MAXIMUM AND MINIMUM TEMPERATURES, APRIL, 1906.

Sections and stations	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.																													
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.																														
NORTHERN.																																																													
Corinne +	42.28	40.20	57.20	42.20	52.30	40.20	66.57	60.57	60.36	57.34	51.33	57.28	73.32	74.37	75.37	67.38	64.39	70.37	70.38	83.41	83.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42																												
Evansville, Wyo.	40.22	39.19	55.20	40.20	50.30	39.19	65.30	51.32	55.30	50.32	45.33	50.28	65.30	70.32	75.37	62.29	57.30	62.24	62.24	70.38	83.41	83.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42																											
Farmington, N.M.	41.34	40.24	56.24	41.24	51.34	40.24	67.34	61.34	61.34	58.34	53.34	58.34	73.34	74.34	75.34	62.34	57.34	62.24	62.24	70.38	83.41	83.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42	85.42																											
Ft. Duchesne	42.34	41.24	57.34	42.24	52.34	41.24	68.34	62.34	62.34	59.34	54.34	59.34	74.34	75.34	76.34	63.34	58.34	63.24	63.24	71.38	84.41	84.42	86.42	86.42	86.42	86.42	86.42	86.42	86.42	86.42	86.42	86.42	86.42	86.42																											
Hobbs	43.34	42.24	58.34	43.24	53.34	42.24	69.34	63.34	63.34	60.34	55.34	60.34	75.34	76.34	77.34	64.34	59.34	64.24	64.24	72.38	85.41	85.42	87.42	87.42	87.42	87.42	87.42	87.42	87.42	87.42	87.42	87.42	87.42	87.42																											
Holbrook	44.34	43.24	59.34	44.24	54.34	43.24	70.34	64.34	64.34	61.34	56.34	61.34	76.34	77.34	78.34	65.34	60.34	65.24	65.24	73.38	86.41	86.42	88.42	88.42	88.42	88.42	88.42	88.42	88.42	88.42	88.42	88.42	88.42	88.42																											
Kelton	45.34	44.24	60.34	45.24	55.34	44.24	71.34	65.34	65.34	62.34	57.34	62.34	77.34	78.34	79.34	66.34	61.34	66.24	66.24	74.38	87.41	87.42	89.42	89.42	89.42	89.42	89.42	89.42	89.42	89.42	89.42	89.42	89.42	89.42																											
Logan +	46.34	45.24	61.34	46.24	56.34	45.24	72.34	66.34	66.34	63.34	58.34	63.34	78.34	79.34	80.34	67.34	62.34	67.24	67.24	75.38	88.41	88.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42																											
Lucas	47.34	46.24	62.34	47.24	57.34	46.24	73.34	67.34	67.34	64.34	59.34	64.34	79.34	80.34	81.34	68.34	63.34	68.24	68.24	76.38	89.41	89.42	91.42	91.42	91.42	91.42	91.42	91.42	91.42	91.42	91.42	91.42	91.42	91.42																											
Meadowville	48.34	47.24	63.34	48.24	58.34	47.24	74.34	68.34	68.34	65.34	60.34	65.34	80.34	81.34	82.34	69.34	64.34	69.24	69.24	77.38	90.41	90.42	92.42	92.42	92.42	92.42	92.42	92.42	92.42	92.42	92.42	92.42	92.42	92.42																											
Morgan	49.34	48.24	64.34	49.24	59.34	48.24	75.34	69.34	69.34	66.34	61.34	66.34	81.34	82.34	83.34	70.34	65.34	70.24	70.24	78.38	91.41	91.42	93.42	93.42	93.42	93.42	93.42	93.42	93.42	93.42	93.42	93.42	93.42	93.42																											
Oakley, Idaho	50.34	49.24	65.34	50.24	60.34	49.24	76.34	70.34	70.34	67.34	62.34	67.34	82.34	83.34	84.34	71.34	66.34	71.24	71.24	79.38	92.41	92.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42																											
Oakley, No. 1	51.34	50.24	66.34	51.24	61.34	50.24	77.34	71.34	71.34	68.34	63.34	68.34	83.34	84.34	85.34	72.34	67.34	72.24	72.24	80.38	93.41	93.42	95.42	95.42	95.42	95.42	95.42	95.42	95.42	95.42	95.42	95.42	95.42	95.42																											
Park City	52.34	51.24	67.34	52.24	62.34	51.24	78.34	72.34	72.34	69.34	64.34	69.34	84.34	85.34	86.34	73.34	68.34	73.24	73.24	81.38	94.41	94.42	96.42	96.42	96.42	96.42	96.42	96.42	96.42	96.42	96.42	96.42	96.42	96.42																											
Pocatello, Idaho	53.34	52.24	68.34	53.24	63.34	52.24	79.34	73.34	73.34	70.34	65.34	70.34	85.34	86.34	87.34	74.34	69.34	74.24	74.24	82.38	95.41	95.42	97.42	97.42	97.42	97.42	97.42	97.42	97.42	97.42	97.42	97.42	97.42	97.42																											
Postville, Idaho	54.34	53.24	69.34	54.24	64.34	53.24	80.34	74.34	74.34	71.34	66.34	71.34	86.34	87.34	88.34	75.34	70.34	75.24	75.24	83.38	96.41	96.42	98.42	98.42	98.42	98.42	98.42	98.42	98.42	98.42	98.42	98.42	98.42	98.42																											
Salt Lake City	55.34	54.24	70.34	55.24	65.34	54.24	81.34	75.34	75.34	72.34	67.34	72.34	87.34	88.34	89.34	76.34	71.34	76.24	76.24	84.38	97.41	97.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42																											
Snowflake	56.34	55.24	71.34	56.24	66.34	55.24	82.34	76.34	76.34	73.34	68.34	73.34	88.34	89.34	90.34	77.34	72.34	77.24	77.24	85.38	98.41	98.42	100.42	100.42	100.42	100.42	100.42	100.42	100.42	100.42	100.42	100.42	100.42	100.42																											
Strawberry Valley.	57.34	56.24	72.34	57.24	67.34	56.24	83.34	77.34	77.34	74.34	69.34	74.34	89.34	90.34	91.34	78.34	73.34	78.24	78.24	86.38	99.41	99.42	101.42	101.42	101.42	101.42	101.42	101.42	101.42	101.42	101.42	101.42	101.42	101.42																											
Theodore	58.34	57.24	73.34	58.24	68.34	57.24	84.34	78.34	78.34	75.34	70.34	75.34	90.34	91.34	92.34	79.34	74.34	79.24	79.24	87.38	100.41	100.42	102.42	102.42	102.42	102.42	102.42	102.42	102.42	102.42	102.42	102.42	102.42	102.42																											
Tonopah	59.34	58.24	74.34	59.24	69.34	58.24	85.34	79.34	79.34	76.34	71.34	76.34	91.34	92.34	93.34	80.34	75.34	80.24	80.24	88.38	101.41	101.42	103.42	103.42	103.42	103.42	103.42	103.42	103.42	103.42	103.42	103.42	103.42	103.42																											
Verdell (near)	60.34	59.24	75.34	60.24	70.34	59.24	86.34	80.34	80.34	77.34	72.34	77.34	92.34	93.34	94.34	81.34	76.34	81.24	81.24	89.38	102.41	102.42	104.42	104.42	104.42	104.42	104.42	104.42	104.42	104.42	104.42	104.42	104.42	104.42																											
Woodruff	61.34	60.24	76.34	61.24	71.34	60.24	87.34	81.34	81.34	78.34	73.34	78.34	93.34	94.34	95.34	82.34	77.34	82.24	82.24	90.38	103.41	103.42	105.42	105.42	105.42	105.42	105.42	105.42	105.42	105.42	105.42	105.42	105.42	105.42																											
MIDDLE.																																																													
Black Rock	45.25	45.19	41.12	50.19	60.19	59.26	55.22	61.26	64.24	63.29	61.27	53.26	63.16	62.22	69.27	71.29	68.41	64.32	67.29	71.24	74.28	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30																												
Castle Dale	46.25	46.19	42.12	51.19	61.19	60.26	56.22	62.26	65.24	64.29	62.27	54.26	64.16	63.22	70.27	72.29	69.41	65.32	68.29	72.24	75.28	77.30	77.30	77.30	77.30	77.30	77.30	77.30	77.30	77.30	77.30	77.30	77.30																												
Cisco	47.25	47.19	43.12	52.19	62.19	61.26	57.22	63.26	66.24	65.29	63.27	55.26	65.16	64.22	71.27	73.29	70.41	66.32	69.29	73.24	76.28	78.30	78.30	78.30	78.30	78.30	78.30	78.30	78.30	78.30	78.30	78.30	78.30																												
Deseret	48.25	48.19	44.12	53.19	63.19	62.26	58.22	64.26	67.24	66.29	64.27	56.26	66.16	65.22	72.27	74.29	71.41	67.32	70.29	74.24	77.28	79.30	79.30	79.30	79.30	79.30	79.30	79.30	79.30	79.30	79.30	79.30	79.30																												
Emery	49.25	49.19	45.12	54.19	64.19	63.26	59.22	65.26	68.24	67.29	65.27	57.26	67.16	66.22	73.27	75.29	72.41	68.32	71.29	75.24	78.28	80.30	80.30	80.30	80.30	80.30	80.30	80.30	80.30	80.30	80.30	80.30	80.30																												
Fillmore	50.25	50.19	46.12	55.19	65.19	64.26	60.22	66.26																																																					

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, APRIL, 1906.

Sections and stations.	Day of month.																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTHERN.																																
Alpine.....		.10	.63									.47						.13						.78			.47		.49			
Alta.....	.15									.10	.15	T.						.23						.23		.30	.10		.09	.04		
Blacksmith's Fork.....	.20	.40	.02							T.	.13	.12	.04					.10	.25					.05	.13	.12			.02			
Castle Rock.....	*	.50									.71												.30		.20	.32	.30		.10	.40		
Corinne.....	.16	.24	.06								.14	.24	T.					.04						*	*	.15	.16			.10	.12	
Evanston, Wyo.....	.34											.02						.05														
Experiment Farm.....	.05			.05								.07						.10													.10	
Farmington.....	.45			T.						T.		.10						.05	.07				T.	T.	.08	.20	.10		*	.18		
Ft. Duchesne.....	.10	.31	.05			T.		T.	T.		.14	.12	T.			T.		.15	T.				T.	T.	.18	.12	.14		T.	.01	T.	
Heber.....	.57									.25	.06							.22	.02						.31	.07	.19			.12	.36	
Honefer.....	.40																	.04												.10		
Huntsville.....	.29	.35									.03	.34	.17					.20							.46	.21	.10			.32		
Kelton.....	.20																															
Logan.....	.10	.20	T.	T.		T.				T.	.25	T.	T.					T.	.15					T.	T.	.15	.30	.34		T.	T.	
Lucin.....	T.	.55	.20								T.	.25						.10							.20	.10				.35		
Marion.....	.28	.26	.02								.03	.57	.10					.34							.02	.39	.29	.18		.11	.15	
Meadowville.....	.15	.26	.03									.18	.01					.18								.30	.25	.15			.01	
Millville.....																																
Morgan.....	.57	.34								T.	T.	.28					*	.07												.12	.27	
Oakley, Idaho.....	*	.45																												.05	.12	
Ogden No. 1.....	.22	.06																.05	.04													
Ogden No. 2.....	T.	.27										.34					.12						T.	T.	.09				T.	.10	.30	
Park City.....	.90	1.70									.01	.12						.04	.06											.01	.02	
Pocatello, Idaho.....	.90	.37		T.		T.				.04	.08	.22						.05	.36					T.	.11	.24	.25	.43		.27	.15	
Randolph.....	*	.72																.22														
Saltair Beach.....																																
Salt Lake City.....	.05	T.	.14									.60						T.	.11											.07	T.	
Snowville.....	.60	.27	.06							T.		.17						.44									.05	.05		.05		
Strawberry Valley.....	.40	.02	T.															.02	.05											.13	.52	
Theodore.....																																
Tooele.....	.80	.25	T.																					.25	T.				.30	T.		
Vernal (near).....																																
Weston, Idaho.....																																
Woodruff.....																																
MIDDLE.																																
Black Rock.....	.80	.50	.20		*	.06	.64									T.	.52													T.	.36	
Castle Dale.....	.05		.16	.22		.80	.90		.03	T.	T.	T.																	.10	.40	.05	
Cisco.....																																
Clear Creek.....																																
Deseret.....	.16	.10																														
Emery.....			.02	.02		1.16	.69																									
Fillmore.....	1.66	T.	.12	T.		.53	.40											.25							.60	.01	.10		.15	.14	.12	
Garrison.....		T.	T.			.75	.40											T.	*						*	.50	.20			.50	.08	
Government Creek.....	.80	.33	.10			.24	.63											.02	.02							.09	.06	.03	T.	T.	.09	.12
Grand Junction, Colo.....	.03		.15	.09																												
Green River.....	1.00		1.00			1.00																										
Hatch.....		.32																														
Ibapah.....	*		.06	.04	.07	.01																										
Indianola.....		.92	.12	.08		* 1.28												.01	.24											*	.38	.10
Levan.....	.18	.15	T.	.14			.55											T.	.42													
Manti.....	.38	.05	.10	.08		.07	.32											T.	.42													
Mount Nebo.....																																
Mount Pleasant.....						.22	.88											.16														
Nephi.....	1.10	.28	.03	.03																												
Oak City.....	1.12	.15	.15																													
Payson.....	.48	.80	.15	.18		T.	.51																									
Provo.....	.30	.90		.10																												
Richfield.....	.06	.02	.05	.02	.01	.31	.03																									
Salina.....																																
Scipio.....	.65	.18	.14	.06		.54	.45	T.																								
Soldier Summit.....			.05	.05																												
Sunny-side.....	.30	.05	1.20		T.	.75	1.40											.02														
Thistle.....	.90	T.	1.20																													
Trout Creek.....							.35																									
Utah Lake Pumping Station.....	*	.62				T.																										
Wellington.....		.20					.40																									
SOUTHERN.																																
Aneth.....		.25					.30											.14	T.	T.										.02	.09	
Beaver.....						.35	.78	.10											T.											.14	.20	
Cedar City.....	T.	.12	.20	.10		.15	.31	.32																						.10	.46	.06
Coyote.....	.25	T.	.45				.59	.13																								

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

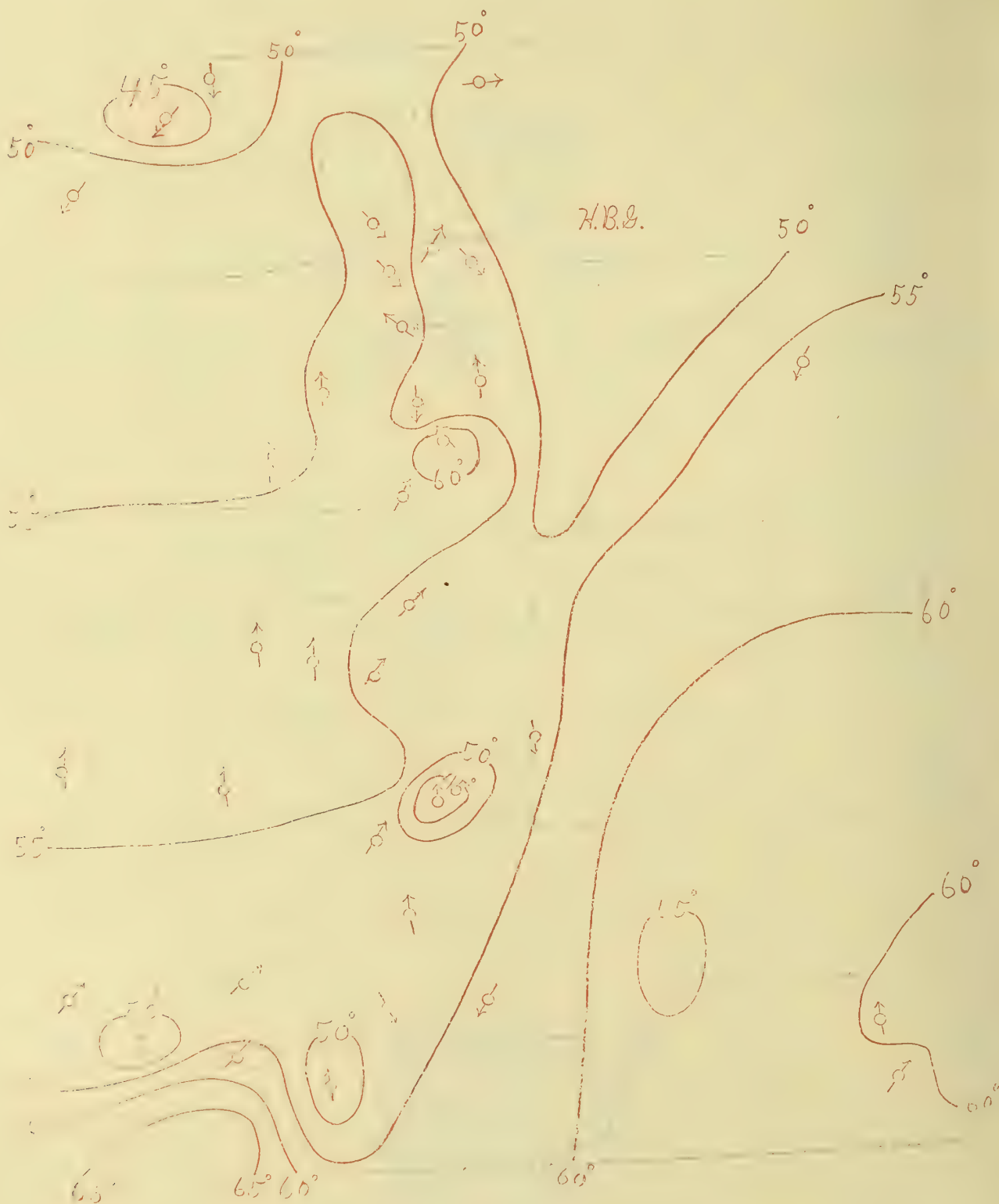
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

JUNE 23, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

No. VIII.

SALT LAKE CITY, UTAH, MAY, 1906.

No. 7.

GENERAL SUMMARY.

The weather during the month averaged abnormally cool, windy and wet, particularly over the northern half of the State. The deficiency of temperature and the excess of precipitation increased rapidly southward, and much more moderate conditions prevailed in the southern counties. Brief periods of fair, warm weather occurred at timely intervals, and the general weather conditions were quite favorable until, at the close of the month, the need of sunshine and warmth was being felt.

As the month opened, a general storm of short duration was prevailing that distributed copious precipitation over the State, which was very beneficial. The subsequent change to fair weather was marked by a general frost of moderate severity. Fair, cool weather persisted for several days afterward, and light frost occurred frequently in the more exposed localities. The surplus moisture was nearly exhausted when opportune rains, about the middle of the month, replenished the supply abundantly, and proved very favorable. Cooler, drier weather characterized the close of the second decade, and general frosts were reported on the 17th that did slight damage. The weather continued fair, and the temperature gradually rose during the early part of the third decade. These conditions were particularly favorable, with the exception: the mountain snow having melted more rapidly, the increased volume of water swelled the streams, causing damage to bridges, roads and lowlands. Near the close of the month a general cold rain set in, and a heavy downpour occurred over nearly all the State. This was the heaviest storm of the month over the northern half of the State, but the cooler weather had caused such a marked subsidence in the quantity of water from melted snow reaching the streams, that they rose but little during the storm. The rain had just ceased as the month closed, and on the last day light frost formed generally over the State, and the month ended fair and cool, with an abundance of water in the ground.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 60 stations, was 55.1°, or 2.2° below the normal. The highest local monthly mean was 68.4° at Hite; the lowest was 40.2° at Kelton. The highest temperature recorded was 96° at Thistle on the 21st; the lowest was 13° at Kelton on the 10th, giving an absolute range for the section of 83°. The greatest daily range for any station was 62° at Thistle on the 21st. The highest temperatures of the month were generally recorded on the 10th, 11th, 18th and 19th, and the lowest generally occurred on the 17th.

PRECIPITATION.

The average precipitation, determined from the reports of 76 stations, was 1.98 inches, or 1.18 inches above the normal. The excess was greatest over the northern portion of the section, and decreased southward. The greatest monthly amount was 5.63

inches at Ogden No. 1 (north side), and the least a trace at Lucin. The greatest precipitation in any 24 consecutive hours was 4.50 inches at Trout Creek on the 28th. A small amount of snow fell at scattered stations. There was an average of 6 days with 0.01 inch or more of precipitation; 8 over the northern portion, 6 over the middle portion, and 4 over the southern portion.

WIND.

The prevailing direction of the wind for the section was south-west. The total number of miles recorded at Salt Lake City was 5,051; at Modena, 10,384; at Grand Junction, Colo., 4,204; and at Pocatello, Idaho, 6,942. The maximum velocity at Salt Lake City was 31 miles per hour from the northwest on the 15th; at Modena, 58 miles from the southwest on the 28th; at Grand Junction, Colo., 32 miles from the south on the 28th; and at Pocatello, Idaho, 37 miles from the southwest on the 13th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 15; partly cloudy days, 8; cloudy days, 8. Determined from the records of automatic sunshine recorders, Salt Lake City had 56 per cent; Modena 52 per cent; Grand Junction, Colo., 62 per cent; and Pocatello, Idaho, 62 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 49 per cent, the lowest observed reading being 11 per cent on the 19th; at Modena, 46 per cent, the lowest observed reading being 9 per cent on the 19th; at Grand Junction, Colo., 46 per cent, the lowest observed reading being 13 per cent on the 21st; and at Pocatello, Idaho, 54 per cent, the lowest observed reading being 13 per cent on the 4th.

OBSERVERS' REMARKS.

Alpine.—The weather during the month was cold, cloudy and windy; and spring was generally backward.—T. B. Whitby.

Aneth.—The month's weather was a little cooler than the average.—Sophie Hubert.

Black Rock.—The month, as a whole, was unseasonably cold, raw and windy.—Willard Burbank.

Deseret.—Very high winds prevailed during the month, and considerable damage was done thereby; the cold, wet weather made everything backward.—Samuel W. Western.

Enterprise.—The weather was very cold all month, and an exceptionally heavy frost occurred on the 28th.—John Day.

Farmington.—The ground was much wetter than usual.—Chas. Boylin.

Giles.—May was a cold, windy, backward month.—John C. White.

Government Creek.—The month of May was cool and stormy; it was the wettest May ever known here; considerable damage was done by frost.—Walter James.

Green River.—The Green river was rising rapidly.—Louis C. Farrer.

Heber.—The fore part of the month was pleasant; the latter part was cold and wet.—John Crook.

Henefer.—The weather during the month was, in general, favorable; more rain fell than in any previous May of record; light frost occurred, but did no serious damage.—Wm. Brewer.

Huntsville.—The storm of the last week in May was unusually heavy.—Lars Petersen.

Kanab.—Considerable damage was caused by frost during the month.—E. M. Ford.

Levan.—The weather of the month was cold and wet, and field work was greatly retarded.—Wm. Brown.

Marion.—Swallows arrived in this locality May 16th, although the weather was very cold and squally.—James Woolstenhulme.

Marysville.—The month was somewhat dry and cool; irrigation water was plentiful. John W. Henry.

Meadowville.—The weather was generally very favorable for all interests; the rains were the best that have fallen in many years.—J. S. Moffat.

Moab.—A torrential rainstorm, accompanied by wind and hail, occurred on the 28th of the month.—Henry Crouse.

Mt. Nebo.—Cold and cloudy weather prevailed during the greater part of the month, with high winds and frequent frosts.—D. C. Walkey.

Panguitch.—The month was cold and backward.—J. E. Steele.

Richfield.—The latter part of the month was unusually cold and windy.—Anton Nielsen.

St. George.—Fine weather prevailed.—James G. Bleak.

Scipio.—The weather was cold and stormy, and everything was somewhat backward; water was plentiful.—Thos. Memmot.

Sunnyside.—A remarkable wind and sandstorm on the 28th was followed by heavy rain.—Henry Cullum.

Tropic.—Favorable weather prevailed until the 29th, when killing frost occurred, and did much damage.—E. P. Bolton.

MISCELLANEOUS PHENOMENA.

Parhelia.—Henefer, 23.

Halo, solar.—Mt. Nebo, 9.

Lightning.—Utah Lake, 23.

Rainbow.—Meadowville, 28.

Coronae, lunar.—Marysville, 4, 6.

Halos, lunar.—Henefer, 6; Marysville, 5.

Sleet.—Cedar City, 28; Clear Creek, 12; Deseret, 28; Henefer, 15, 28; Levan, 12, 28; Marion, 13, 28, 29; Meadowville, 15; Mt. Nebo, 29; Nephi, 28; Sunnyside, 1; Vernal, 12.

Frosts, light.—Black Rock, 31; Huntsville, 30, 31; Levan, 16, 17; Mt. Nebo, 14, 31; Salt Lake City, 17, 31; Scipio, 30, 31; Utah Lake, 16; Vernal, 2, 17.

Hail.—Alpine, 4, 28; Deseret, 28; Farmington, 30; Giles, 9; Government Creek, 26; Henefer, 15, 28, 30; Huntsville, 15; Levan, 1, 12, 28; Marysville, 28; Moab, 28; Modena, 12, 28; Mt. Nebo, 28, 29; Nephi, 1, 26, 28, 29; Provo, 29; Randolph, 22; Richfield, 12, 29; Salt Lake City, 28; Scipio, 28, 29; Tropic, 5, 12; Utah Lake, 26; Vernal, 12.

Frosts, killing.—Alpine, 31; Black Rock, 17; Cedar City, 28; Deseret, 6, 17; Enterprise, 16, 28, 29; Escalante, 29; Farmington, 17; Heber, 17; Henefer, 6; Huntsville, 6, 17; Kanab, 29—31; Marysville, 17, 18, 29—31; Meadowville, 17; Modena, 1, 27, 30; Morgan, 17; Mt. Nebo, 16, 17, 30; Provo, 17; Richfield, 17; Scipio, 17; Theodore, 14, 31; Tooele, 17; Tropic, 29.

Thunderstorms.—Alpine, 26; Aneth, 9, 12, 23; Deseret, 12, 28; Enterprise, 9, 12, 28; Farmington, 28—30; Giles, 9, 12, 23; Government Creek, 28; Henefer, 1, 23; Kelton, 27, 28; Levan, 9, 12, 28; Marion, 21, 26, 28, 29; Marysville, 27; Meadowville, 22—25; Moab, 9, 23, 28; Modena, 1, 12; Morgan, 27; Mt. Nebo, 24, 28; Nephi, 1, 28; Parowan, 1, 4, 28; Pinto, 8; Provo, 28; Richfield, 9; Salt Lake City, 12, 29; Snowville, 23, 28, 30; Sunnyside, 1; Theodore, 1; Tooele, 23; Tropic, 11, 12, 24; Utah Lake, 9; Vernal, 12, 23, 25, 27, 28.

High winds.—Aneth, 9, 11—13, 15, 16, 19—22, 26, 27, 31; Black Rock, 11, 14, 15, 19, 21, 25—27; Castle Rock, 4; Cedar City, 11—13; Deseret, 9, 11, 16, 19, 20, 23, 25—29; Emery, 15; Enterprise, 11, 12, 14—16, 19—22, 24, 28; Garrison, 11, 12, 14—16, 19—21, 25—30; Giles, 11, 22—27; Government Creek, 11, 14, 19, 20, 25; Grayson, 14, 27; Heber, 17, 20; Henefer, 4, 7, 10, 11, 14, 19—21, 23, 28, 29; Levan, 11, 27; Marion, 16; Marysville, 15, 16; Meadowville, 3, 4, 21; Modena, 28; Mt. Nebo, 11, 12, 16, 19—21; Randolph, 29; Richfield, 19; Salt Lake City, 5, 10, 15, 20, 26, 28; St. George, 12, 28, 30; Scipio, 11; Sunnyside, 28; Theodore, 6, 17, 24, 27; Tropic, 17, 23; Utah Lake, 12, 14, 15.

CORRECTIONS FOR APRIL.

Page 29: Deseret—Mean temperature recorded 48.8°, should be 48.7°.

Page 30: Deseret—On the 23rd, maximum and minimum, recorded 62° and 39°, should be 78° and 60°, respectively; 24th, maximum and minimum, recorded 78° and 60°, should be 60° and 39°, respectively; 25th, maximum recorded 60°, should be 56°; mean maximum recorded 63.6°, should be 63.4°; mean monthly recorded 48.8°; should be 48.7°.

LATE REPORT FOR APRIL.

Strawberry Valley (record for 22 days): Mean temperature 34.8°; highest, 63° on the 22nd; lowest, zero.

WATER STAGES.

The level of Great Salt Lake on May 1st was 0.5 of a foot above zero; on May 15th, 0.7 above; and on June 1st, 1.0 foot above.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND TOTAL PRECIPITATION, HEBER, UTAH COUNTY, UTAH.

MEAN TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1893.....	19.6	20.3	31.6	41.3	51.8	52.7	68.1	64.4	56.4	44.3	32.5	27.6	42.2
1894.....	17.2	12.0	33.3	42.8	54.4	56.8	66.6	65.6	53.4	45.4	39.0	20.9	42.2
1895.....	18.4	17.3	29.5	46.4	53.0	57.6	65.0	66.1	50.2	46.4	.....	.....	.....
1896.....	23.6	22.0	31.6	41.0	48.9	64.6	65.9	64.0	54.7	.....	.....	.....	.....
1897.....	22.8	23.3	26.5	43.0	56.8	58.2	63.0	65.2	55.2	44.2	36.5	14.8	42.2
1898.....	11.6	25.4	29.8	47.2	50.8	61.4	67.8	68.0	56.0	42.4	30.8	18.0	42.2
1899.....	23.4	20.0	33.5	44.6	49.5	59.7	67.8	60.8	57.0	40.2	37.2	17.8	42.2
1900.....	27.8	27.6	41.8	44.5	54.3	63.3	65.0	62.2	53.8	47.0	37.8	28.2	42.2
1901.....	23.7	27.6	34.4	43.9	56.2	58.4	69.0	66.9	53.6	47.7	39.0	25.8	45.4
1902.....	25.5	32.8	32.6	44.6	52.4	61.2	62.4	63.4	55.6	46.2	31.3	24.4	44.4
1903.....	24.2	10.7	33.3	42.7	49.6	61.8	64.0	65.6	53.4	45.3	36.8	21.6	42.2
1904.....	14.0	28.6	35.8	45.1	52.8	58.0	64.4	64.8	56.6	47.2	37.4	22.4	43.4
1905.....	21.2	24.0	39.0	46.2	50.5	60.2	66.4	66.2	57.1	42.2	36.2	17.0	43.4
1906.....	20.8	28.4	33.6	45.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	21.0	22.4	33.3	44.1	52.4	59.5	65.8	64.9	55.2	44.9	36.1	22.2	44.4

TOTAL PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1893.....	1.80	2.95	3.35	2.15	0.76	0.02	0.27	0.68	0.28	0.73	1.90	3.95	18.3
1894.....	3.65	1.60	1.05	0.41	0.54	0.79	0.62	1.16	2.47	1.70	0	2.60	17.7
1895.....	3.22	1.93	1.45	0.48	1.54	0.25	1.37	T.	0.50	0.40	.....	.....	.....
1896.....	2.10	0.95	2.46	2.40	1.85	0.09	3.35	0.55	1.44	.....	.....	.....	.....
1897.....	1.30	4.10	2.90	0.90	0.70	0.38	0.56	0.49	3.14	1.50	1.00	.....	.....
1898.....	1.40	0.50	3.30	1.25	7.04	0.83	0.25	0.64	.....	1.44	1.60	1.10	19.9
1899.....	2.95	5.85	3.00	0.89	1.14	0.97	1.61	2.10	0.15	3.20	0.85	1.55	24.4
1900.....	1.06	1.50	0.34	2.53	0.16	0.20	0.25	0.31	1.20	1.47	4.42	0.22	13.4
1901.....	2.20	2.20	1.56	0.32	1.72	0.08	0.40	2.06	0.16	1.70	1.40	1.50	15.4
1902.....	0.50	1.03	1.46	1.88	0.49	0.37	0.15	0.50	0.49	0.45	1.77	1.04	10.0
1903.....	2.17	0.70	1.95	0.78	1.42	0.25	0.69	0.20	1.17	0.76	1.90	1.33	13.4
1904.....	2.10	3.00	3.48	0.96	2.01	0.73	0.29	0.88	0.16	1.22	0	1.91	16.7
1905.....	1.22	1.03	1.69	2.06	1.27	0.43	0.70	0.58	2.12	0.31	0.73	0.80	12.7
1906.....	3.10	1.58	3.93	1.23	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	2.06	2.06	2.32	1.30	1.59	0.41	0.81	0.78	1.10	1.24	1.42	1.52	16.0

COMPARATIVE DATA FOR MAY.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	54.8	98	20	1.55
1893	54.8	96	12	0.77
1894	58.2	98	10	0.44
1895	57.0	99	19	1.16
1896	51.0	104	12	1.52
1897	60.2	104	12	0.42
1898	53.2	94	20	3.02
1899	52.8	96	15	0.79
1900	59.5	101	21	0.36
1901	59.3	98	15	1.29
1902	56.2	95	13	0.64
1903	53.3	100	15	1.60
1904	56.2	100	15	1.71
1905	52.3	96	18	1.77
1906	55.1	96	13	1.98

CLIMATOLOGICAL DATA, MAY, 1906

Sections and stations	Counties	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.					Precipitation, in inches					Sky.					Prevailing direction of wind	Observers
				Mean	Departure from the normal.	Highest	Lowest	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall cumulated.	Days with .01 inch or more	Number clear days	Number partly cloudy days	Number cloudy days				
NORTHERN.																				
Corinne	Boxelder	4,240	30	50.2	-1.5	92	22	32	10	48	3.35	+2.97	0.86	0.0	9	11	9	7	sw.	Agent So. Pacific R. R.
Winstan, Wyo	Uinta	6,959	10	45.9	-0.1	73	10	12	17	16	4.51	+2.59	0.92	11.0	11	17	5	9	sw.	Frank Tucker.
Winstan, Wyo	Davis	4,207	0	50.6	+0.3	92	11	26	*1	51	4.47	+1.04	1.05	0.0	8	17	2	12	nw.	Charles Boylin.
Winstan, Wyo	Uinta	5,000	18	50.1	+0.4	86	19	30	2	49	1.19	+0.49	0.43	0.0	7	17	9	5	sw.	Post Surgeon.
Winstan, Wyo	Wasatch	5,600	13	51.6	-0.8	88	9	26	17	50	2.61	+1.62	0.50	0.0	8	17	6	8	s.	John Crook.
Winstan, Wyo	Summit	5,301	2	50.6	-1.3	86	10	23	6	49	3.78	+2.12	0.79	0.0	12	14	7	10	nw.	William Brewer.
Winstan, Wyo	Weber	5,100	11								3.50	+1.44	1.32	0.0	7	14	9	8	w.	Lars Petersen.
Winstan, Wyo	Boxelder	1,230	28	40.2	-17.4	99	20	13	10	51	1.83	+1.18	0.88	0.0	5	13	13	5	ne.	Agent So. Pacific Co.
Winstan, Wyo	Cache	4,507	15	52.2	-2.8	79	10	33	17	37	5.05	+2.89	1.40	0.0	8				ne.	Agricultural College.
Winstan, Wyo	Boxelder		1	53.3		82	11	18	28	45	T.	T.	T.	0.0	6	21	9	1	ne.	Agent So. Pacific R. R.
Winstan, Wyo	Rich	6,200	7	48.4	-1.6	74	11	25	17	41	4.10	+2.42	0.85	2.0	12	17	2	12	w.	J. S. Moffat.
Winstan, Wyo	Cache	4,848	11								4.61	+3.95	1.07		12					Fred Yeates.
Winstan, Wyo	Morgan	5,080	3	51.8		79	19	26	17	45	3.86		0.77		11	15	8	7	sw.	T. R. G. Welch.
Winstan, Wyo	Weber	4,310	5	56.6	-0.5	82	10	35	*17	31	5.93	+2.59	1.33	0.0	10	18	4	9	nw.	Enoch Farr.
Winstan, Wyo	Weber	4,310	36	55.3	-6.0	88	10	35	15		4.68	+3.94	1.23	0.0	7	16	5	10	w.	W. H. Chevers.
Winstan, Wyo	Summit	7,800																		P. S. McKimmins.
Winstan, Wyo	Bannock	4,183	6	53.3	-1.0	81	9	33	5	37	3.12	+1.95	0.94	T.	10	13	10	8	se.	Weather Bureau.
Winstan, Wyo	Rich		1								2.02		0.50		9	9	5	17	sw.	Wm. Rex.
Winstan, Wyo	Salt Lake		1	55.8		81	*11	39	1	30	2.13		0.54	0.0	9					Francis W. Bailey.
Winstan, Wyo	Salt Lake	4,366	32	56.3	-1.5	82	10	34	17	34	3.17	+1.45	1.01	0.0	11	15	6	10	se.	Section Center.
Winstan, Wyo	Boxelder	4,360	16	49.3	-5.3	82	9	22	5	50	3.54	+2.25	0.85	0.0	9	13	10	8	n.	Joseph Robbins.
Winstan, Wyo	Wasatch																			A. B. Larson.
Winstan, Wyo	Wasatch	5,507		53.4		83	19	29	2	42	0.61		0.32	0.0	4	17	3	11		M. M. Smith.
Winstan, Wyo	Tooele	4,900	10	55.2	-0.8	81	*10	30	17	37	2.66	+0.31	0.90	0.0	8	20	3	8	s.	I. J. Elkington.
Winstan, Wyo	Uinta		11	56.0		87	19	31	2	38	2.55	+1.60	0.62		9	18	5	8	ne.	Joab Collier.
Winstan, Wyo	Rich	6,500	9																	Thomas Ashton.
Averages				53.1	-4.3						3.23	+1.80		0.1	8	16	6	9	sw.	
MIDDLE.																				
Black Rock	Millard	4,872	6	55.4	-0.3	83	18	29	17	49	0.91	-0.27	0.35	0.0	5	18	12	1	s.	Willard Burbank.
Castle Dale - T 4	Emery	5,500	7	51.3	-2.1	80	19	18	2	51	6.00	+0.47	0.40	0.0	4	19	7	0		James Jeffs.
Deseret	Millard	4,514	12	55.7	-1.0	83	10	26	17	47	1.96	+0.82	1.20	T.	3	18	0	7	s.	S. W. Western.
Emery	Emery	6,260	6	53.8	+4.1	86	20	28	2	43	0.75	+0.33	0.75	0.0	1	9	4	18	n.	H. C. Wickman.
Emery	Millard	5,100	16	58.4	-9.1	86	18	29	17	47	2.18	+0.72	0.70	0.0	4					J. J. Starley.
Emery	Millard		3	50.1		83	9	25	17	44	0.77		0.43	0.0	3	14	9	8	s.	E. M. Smith.
Emery	Tooele	5,277	6	52.6	-1.3	78	*10	26	17	37	2.14	+0.32	0.98	0.0	5	16	10	5	s	Walter James.
Emery	Mesa	4,608	15	60.6	-1.0	88	19	39	3	35	2.74	+2.11	1.83	0.0	6	16	8	7	nw.	Weather Bureau.
Emery	Emery	4,680	9	61.4	-2.2	92	20	34	4	48	0.90	+0.27	0.50	0.0	2	23	1	7		Louis C. Farrer.
Emery	Tooele		3	51.2		81	20	19	17	53	1.25		1.00	0.0	2	13	14	2		Owen Sheridan.
Emery	Sanpete		1								0.19		0.05	0.0	6					R. H. Spencer.
Emery	Juab	5,010	16	53.6	-1.3	86	19	28	17	38	3.30	+1.69	0.82	T.	8	17	7	7	sw.	William Brown.
Emery	Sanpete	5,575	12	54.2	-3.2	86	19	30	17	42	1.96	+0.90	0.65		8	0	21	3		W. M. Harmon.
Emery	Utah	4,650	5	56.3	+0.8	82	19	31	17	36	1.71	+0.37	0.44	0.0	9	12	13	0	sw.	D. C. Walkey.
Emery	Sanpete	5,859	14																	Web Greene.
Emery	Juab		1								3.35		0.96	0.0	9	15	5	7		A. Madsen.
Emery	Millard		1	57.4		84	10	27	17	41	2.31		0.83	0.0	5	15	6	10	s.	J. Finlinson.
Emery	Utah	4,637	1								2.83		0.66	0.0	9	11	12	8	sw.	D. L. Combs.
Emery	Utah	4,532	14	60.0	+2.3	93	11	31	1	49	2.80	+1.17	0.85	0.0	8	14	7	10	se.	W. K. Henry.
Emery	Sevier	5,350	16	55.4	-1.7	83	18	30	17	47	1.30	+0.86	0.70	0.0	12	15	6	10		Anton Nielsen.
Emery	Millard	5,200	11	52.9	-1.0	81	11	24	17	48	2.12	+0.68	0.83	0.0	8	14	5	12	sw.	Thomas Emmott.
Emery	Utah	7,474	14	49.1	+1.5	72	*9	22	1	37	1.17	+0.33	0.50	7.7	5	0	0	31	sw.	Agent Rio Grande R. R.
Emery	Utah	5,075	14	57.2	+2.3	96	21	30	*5	62	2.28	+1.26	1.00	0.0	5	14	7	6		Ag't. Rio Grande W. R. R.
Emery	Juab		1	56.0		88	2	43	17	53	1.92		1.50	0.0	4	18	7	6		E. E. Edwards.
Emery	Utah		1	53.4		81	21	31	17	38	2.35		0.89	0.0	8	11	10	10	n.	W. A. Knight.
Emery	Carbon	5,540	7	55.4	-0.8	82	*11	27	*1	45	0.42	-0.17	0.40	0.0						E. E. Branch.
Averages				55.1	-1.2						1.86	+0.91		0.4	6	14	7	10	s-sw	
SOUTHERN.																				
Emery	San Juan	4,800	0	64.1	+1.6	89	19	34	1	44	0.25	-0.66	0.15	0.0	2	20	10	1	sw.	Miss S. Hubert.
Emery	Beaver		1	52.9		87	11	25	30	56	1.86		0.64		4					A. B. Anderson.
Emery	Iron			56.8		79	9	30	28	37	0.72		0.52	3.2	2	12	13	6		Prof. R. V. Smith.
Emery	Garfield		5	50.8	+2.7	78	*18	25	*2	48	0.31	-0.39	0.25	0.0	3	16	13	0	s.	H. J. McCullough.
Emery	Garfield	5,700	6	56.2	-1.0	78	*19	32	29	38	0.66	+0.20	0.42	0.0	4	6	5	9	ne.	Geo. H. Barney.
Emery	Washington		2	64.0		91	*8	36	28	45					21	0	10			Joseph T. Atkin.
Emery	Beaver	7,318	12																	Prof. Albert Warren.
Emery	Wayne	4,000	11	61.2	-0.1	88	19	32	*3	49	0.72	+0.24	0.37	0.0	4	22	5	4		J. C. White.
Emery	San Juan		1	56.9		82	18	17	1	42	1.10		0.50	0.0	3	19	5	7	s.	Joseph D. Lyman.
Emery	Garfield	3,000	7	68.4	-0.6	91	*9	41	2	38	0.45	-0.19	0.25	0.0	2	18	13	0		F. W. Gibbons.
Emery	Kane	4,925	6	54.4		82	*9	20	29	48	0.10		0.10	0.0	1	18	0	8		E. M. Ford.
Emery	San Juan	7,000	6																	Mrs. G. W. Carpenter.
Emery	Wayne	7,000	14	50.8	+1.2	78	*10	23	6	47	0.35	+0.01	0.15	0.0	3					Michael Hansen.
Emery	Piute	0,180	7	52.6	-0.1	81	*10	26	*1	50	0.65	-0.39	0.33	T.	8	10	10	11	sw.	John W. Henry.
Emery	Grand	4,000	17	62.7	-1.9	89	19	37	2	46	1.79	+1.03	0.61	0.0	6	7	20	4		Henry Crouse.
Emery	Iron	5,479	0	53.0	-0.4	77	8	31	6	42	1.31	+0.48	0.90	T.	4	13	14	4	sw.	Weather Bureau.
Emery	Iron	5,970	15	54.1	-1.0	82	*10	26	1	48	0.62	-0.56	0.31	1.5	6	12	14	5	sw.	James Connell.
Emery	Washington	5,907	9	49.8	-0.4	75	*8	25	2	45	0.93	-0.17	0.57	0.0	3	12	5	12	s.	J. H. Harrison.
Emery	Sevier	7,000	4	48.8	+0.8	75	*10	23	31	46	1.17	-0.77	0.68	0.2	11	18	9	4		W. H. Schock.
Emery	Kane	0,760	5	48.4	-1.0	73	*19	24	*1	40	0.64	-0.79	0.54	0.0	2	21	6	4	s.	J. W. Seaman.
Emery	Washington		2	67.1		93	*18	39	13	45	0.45		0.45	0.0	1	14	0	14	w.	E. R. Daley.
Emery	Washington	2,866	20	66.0	-1.1	91	*9	40	*1	48	0.39	0	0.35	0.0	2	25	6	0	sw.	J. G. Bleak.
Emery	Wayne		1																	J. C. Jacobs, Jr.
Emery	Garfield	7,000	9	52.4	+0.2	77	*18	25	29	41	0.86	+0.10	0.55	T.	3	10	13	8	nw.	E. P. Bolton.
Averages				56.8	-0.4						0.78	+0.14		0.3	4	16	10	5	sw.	
State averages				55.1	-2.2						1.98	+1.18		0.3	6	15	8	8	sw.	

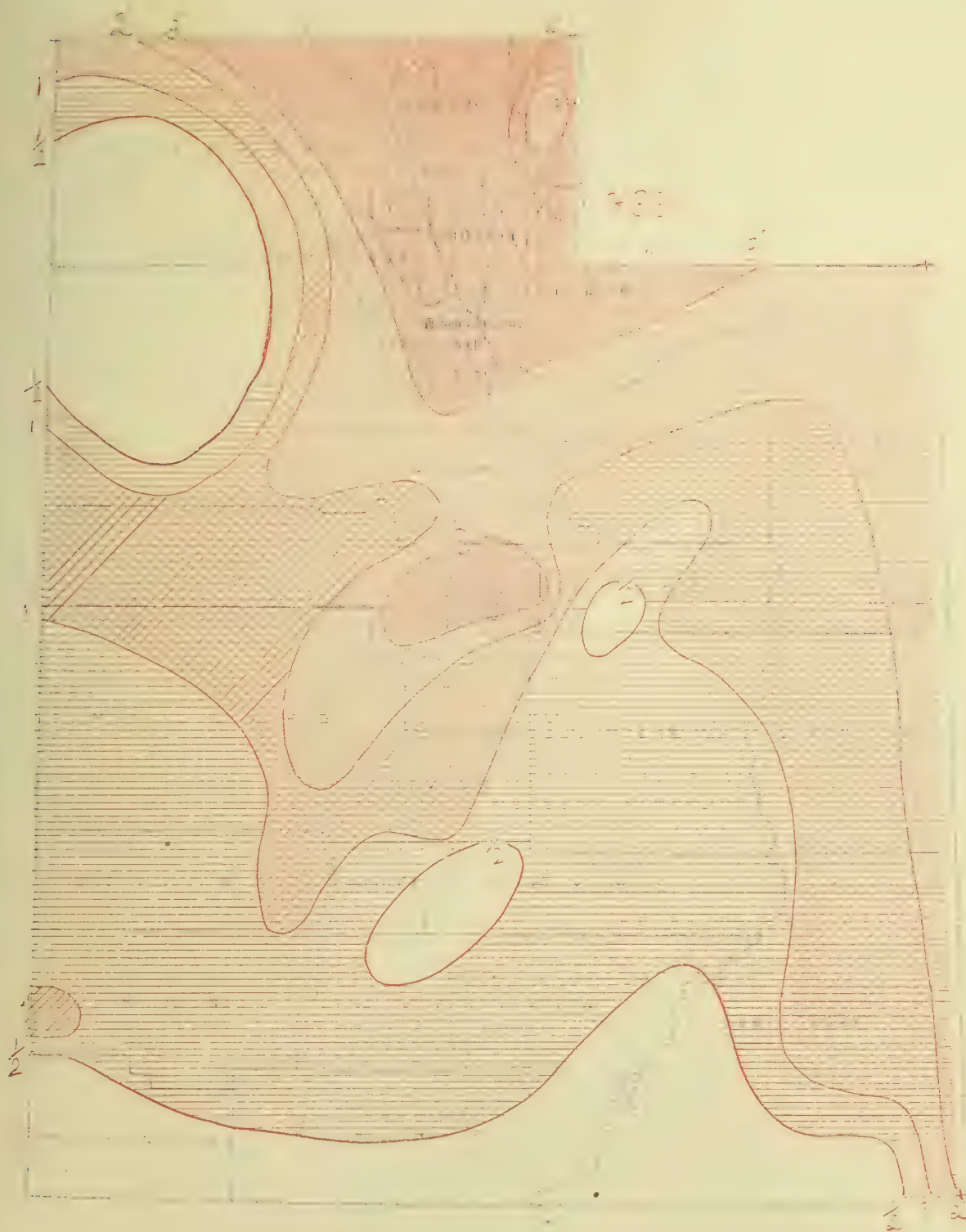
Figures following name of station indicate the number of days missing from the record, and when accompanied by letters indicate division of table to which figures apply, e. g., T4—four days missing from temperature record.

All records are used in determining State (or district) means, but the departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

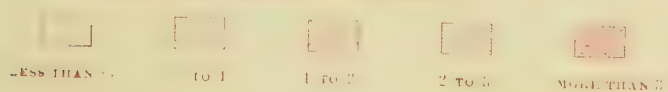
* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m. and 9 p. m. readings. ‡ Thermometers not supplied by Weather Bureau.

[illegible]

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES



461.00
UN
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

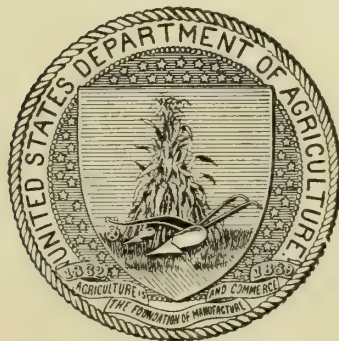
OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

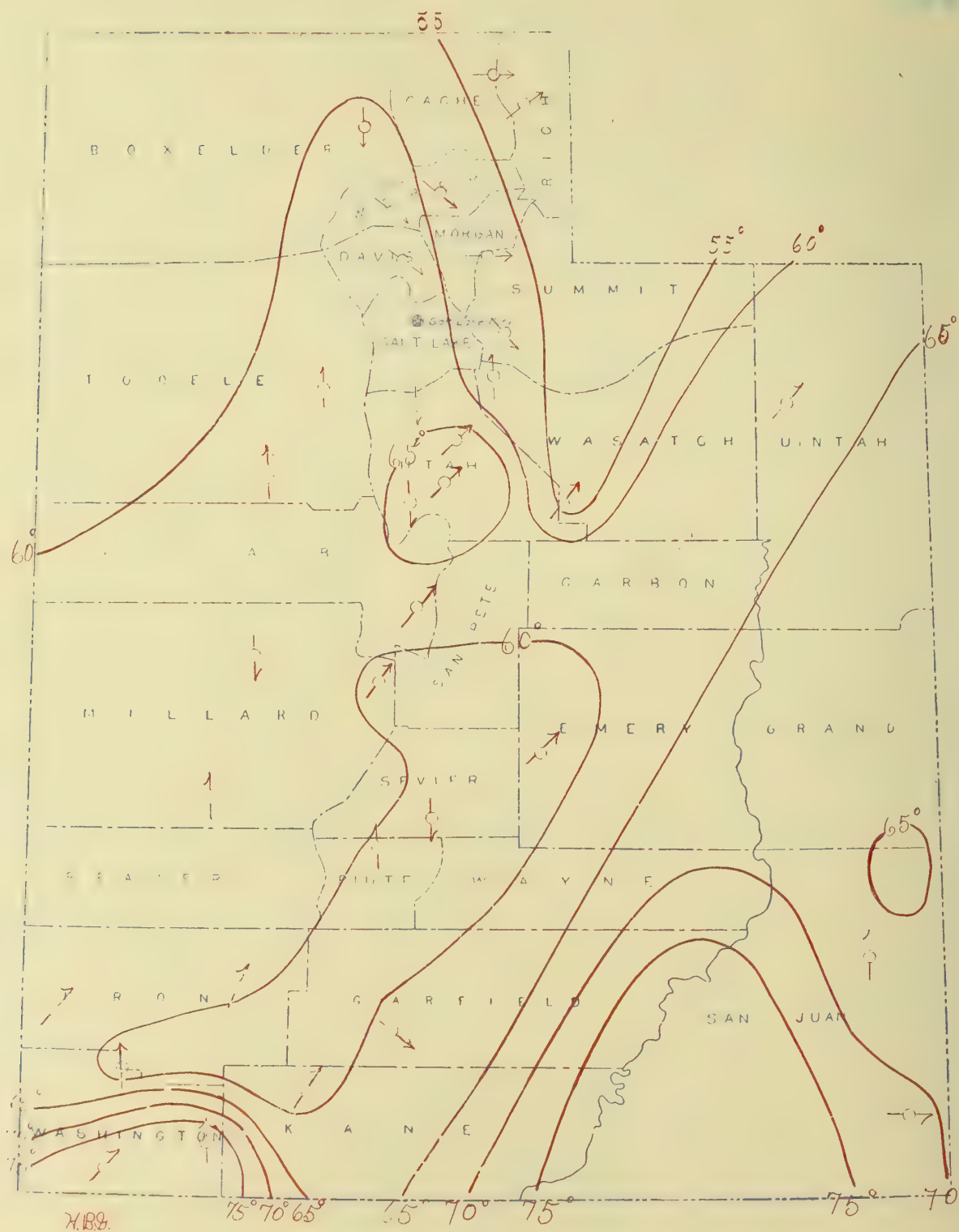
UNDER DIRECTION OF
WILLIS L. MOORE
CHIEF U. S. WEATHER BUREAU

BY
R. J. HYATT,
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JULY 26, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,
CLIMATOLOGICAL SERVICE
 OF THE
WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

L. VIII. SALT LAKE CITY, UTAH, JUNE, 1906. No. 8.

GENERAL SUMMARY.

The month opened with cool, cloudy weather prevailing, and that condition continued until toward the close of the first decade, when the weather became fair. At that time the temperature fell lower, and heavy frost, with considerable ice, formed in many localities. The middle decade was characterized by unusually warm and much warmer weather. While this period of warmth was generally helpful, it increased the stage of water in the snow-streams of the State, and considerable local damage was reported to bridges, roads and lowlands thereby. During the closing decade the weather was again unusually cool and cloudy, and heavy frost formed in many districts.

The precipitation during the month was quite unevenly distributed over the State; while there were several counties in the north-central portion that received much more than the normal rainfall, there were large areas in the southern portion that received none, or only a trace. A storm of about two days' duration swept over the northern portion of the State during the first decade and distributed copious precipitation, but the amount decreased to none in the southern portion. During the storm some local damage occurred, owing to the accompanying high wind, hail and sleet. Snow was common in the mountainous districts. A light storm occurred about the middle of the month over the northern portion of the State, the southern half receiving none. The principal storm of the month occurred toward the close, which resulted in heavy rain over the northern portion of the State, and extending to the south-central portion.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 56 stations, was 62.2°, or 3.5° below the normal. The highest local monthly mean was 76.4° at Rockville; the lowest was 53.3° at Meadowville. The highest temperature recorded was 84° at Rockville on the 23rd; the lowest was 22° at Soldier Summit on the 24th, giving an absolute range for the section of 62°. The greatest daily range for any station was 65° at Thistle on the 21st. The highest temperatures of the month were generally recorded on the 11th, and the lowest generally occurred on the 7th and 8th.

PRECIPITATION.

The average precipitation, determined from the reports of 69 stations, was 0.59 inch, or 0.26 inch above the normal. The excess was confined to the northern and middle portions, there being a marked deficiency over the southern portion. The greatest

monthly amount was 2.18 inches at Farmington, and the least, none, at Green River, Wellington, Aneth, Escalante, Giles, Grayson, Kanab, La Sal, Loa and Modena. The greatest precipitation in any 24 consecutive hours was 1.05 inches at Farmington on the 28th. A small amount of snow fell at scattered stations in the northern portion. There was an average of 2 days with 0.01 inch or more of precipitation; 5 over the northern portion, 3 over the middle portion, and none over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 4,837; at Modena, 8,643; at Grand Junction, Colo., 3,906; and at Pocatello, Idaho, 6,333. The maximum velocity at Salt Lake City was 49 miles per hour from the west on the 5th; at Modena, 60 miles from the southwest on the 5th; at Grand Junction, Colo., 27 miles from the south on the 5th; and at Pocatello, Idaho, 36 miles from the southwest on the 5th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 20; partly cloudy days, 6; cloudy days, 4. Determined from the records of automatic sunshine recorders, Salt Lake City had 69 per cent; Modena 93 per cent; Grand Junction, Colo., 77 per cent; and Pocatello, Idaho, 75 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 44 per cent, the lowest observed reading being 15 per cent on the 21st and 26th; at Modena, 33 per cent, the lowest observed reading being 9 per cent on the 11th; at Grand Junction, Colo., 30 per cent, the lowest observed reading being 9 per cent on the 21st; and at Pocatello, Idaho, 51 per cent, the lowest observed reading being 20 per cent on the 22nd and 25th.

OBSERVERS' REMARKS.

Aneth.—Not a drop of rain fell during the month. Much high wind blew, and temperatures were a little lower than the average for June.—Sophie Hubert.

Black Rock.—With the exception of a few days, the month was cool and backward.—Willard Burbank.

Blacksmith's Fork.—The month was unfavorably cold.—A. M. Israelson.

Deseret.—June was quite warm and dry. Frost did considerable damage on the 7th and 8th.—S. W. Western.

Emery.—Some frost occurred during the month, but no damage was caused. The latter part of the month was warm.—H. C. Wickman.

Government Creek.—June was a cool, wet month.—Walter James.

Heber.—The past June was very frosty and changeable. However, the weather was generally favorable, though the frost did some damage.—John Crook.

Henefer.—Frost did considerable damage in this locality during the month.—Wm. Brewer.

Huntsville.—The weather during the month was generally favorable, though a few frosty nights occurred, and much damage resulted.—Lars Petersen.

Kanab.—The wind blew a great deal during the month; two days were the windiest ever experienced in this place.—E. M. Ford.

Levan.—With a few exceptions, the nights were cold throughout the month.—Wm. Brown.

Marysville.—The cold nights and frost have been very detrimental to all interests. Irrigation water was falling rapidly, and rain was needed.—John W. Henry.

Meadowville.—The month was very cold and backward.—J. S. Moffat.

Ranch.—The month was very windy and cold, and frost did considerable damage. The season was backward.—J. W. Seaman.

Richfield.—The weather was generally favorable, though the rainfall was light. Water was plentiful. High winds were frequent during the month.—Anton Nielsen.

Scipio.—The month was unusually cold.—Thos. Memmott.

Snowville.—Frost did some damage during the month.—Joseph Robbins.

Sunnyside.—Windstorms were frequent during the month, the wind usually blowing from the southwest. However, the prevailing direction is governed by the topography of this locality, the canyon lying nearly north and south.—H. Cullum.

Theodore.—The nights were so cold as to make everything backward.—M. M. Smith.

Tropic.—The cold weather was very unfavorable.—E. P. Bolton.

MISCELLANEOUS PHENOMENA.

Haze.—St. George, 25.

Halo, lunar.—Tropic, 3.

Corona, solar.—Theodore, 5.

Corona, lunar.—Government Creek, 2.

Rainbows.—Marion, 6; Meadowville, 16.

Parhelia.—Henefer, 4; Snowville, 1; Theodore, 5.

Halos, solar.—Henefer, 10, 14, 25; Levan, 4, 9; Snowville, 9, 10, 25.

Sleet.—Castle Rock, 6, 7; Henefer, 7; Marion, 5, 6; Meadowville, 6; Salt Lake City, 6.

Frost, light.—Black Rock, 7; Enterprise, 22; Nephi, 6; Randolph, 6, 8, 11, 12; Richfield, 23, 24; Salt Lake City, 24; Scipio, 7, 8; Vernal, 7, 8.

Hail.—Black Rock, 16; Blacksmith's Fork, 6; Castle Rock, 7, 23; Clear Creek, 5; Henefer, 23; Marion, 6, 16; Mt. Nebo, 6; Ogden, 5; Provo, 4; Randolph, 3; Salt Lake City, 5.

Frost, killing.—Castle Rock, 8, 9; Deseret, 7, 8; Enterprise, 5; Heber, 22, 23; Henefer, 8, 20, 23; Huntsville, 8, 20; Marion, 7, 8, 20, 23; Mt. Nebo, 6-8; Pinto, 7, 23, 25; Plateau, 23, 24; Provo, 22, 29; Scipio, 23, 24; Snowville, 7, 8, 17, 20.

Thunderstorms.—Black Rock, 16, 21; Blacksmith's Fork, 2; Castle Rock, 2, 4, 23; Clear Creek, 5; Deseret, 5, 8, 16; Farmington, 2-4, 23; Government Creek, 2, 4, 5; Heber, 1; Henefer, 2, 4-6, 23; Huntsville, 2-4, 23, 28; Levan, 2, 16, 21, 25; Marion, 5, 6; Marysvale, 1, 2, 25; Meadowville, 5, 23, 26; Moab, 22; Nephi, 2, 16; Ogden, 2, 3; Provo, 4; Randolph, 1, 16, 27-29; Salt Lake City, 2, 3, 5, 6, 16; Snowville, 5; Tooele, 1, 4, 5; Utah Lake, 2, 5, 23.

High winds.—Aneth, 3, 5, 6, 16, 22, 23, 26, 27; Black Rock, 3, 5, 27; Deseret, 4-6, 9, 12, 13, 15, 16, 21, 22, 26, 27; Emery, 5; Enterprise, 3-5, 15; Garrison, 3-5, 9, 15, 16, 25-28; Giles, 4, 5, 16, 19, 27; Government Creek, 15, 25-27; Grayson, 5, 6; Henefer, 13, 19; La Sal, 17, 27; Marysvale, 5; Meadowville, 5-7, 13, 18, 19, 21, 22; Moab, 5, 26, 27; Modena, 5; Mt. Nebo, 5, 13; Nephi, 5; Parowan, 5; Provo, 22; Randolph, 5; Rockville, 5; St. George, 5; Salt Lake City, 2, 5, 6, 15, 16, 21, 27; Scipio, 3-5; Sunnyside, 5, 27; Theodore, 6, 7, 19, 22; Thistle, 5; Tropic, 5, 16, 22, 23; Utah Lake, 5, 27; Vernal, 5.

LATE REPORT FOR MAY.

Strawberry Valley (temperature record for 26 days): Mean temperature, 44.6°; highest, 69° on the 10th and 19th; lowest, 21° on the 17th; greatest daily range, 42°. Total precipitation, 2.63 inches; greatest in any 24 consecutive hours, 0.69 inch; total snowfall, 4.0 inches; number of rainy days, 9; clear days, 12; partly cloudy days, 14; cloudy days, 4.

CORRECTIONS FOR APRIL.

Page 29: Ogden No. 1—Total precipitation recorded 3.17,

should be 2.67; greatest precipitation in any 24 consecutive hours recorded 0.84, should be 0.57. Levan—Temperature departure recorded -9.6°, should be -1.0°.

Page 32: Castle Rock—Precipitation on the 18th recorded 0.25, should be 0.05; total precipitation recorded 1.28, should be 1.38.

WATER STAGES.

The level of Great Salt Lake on June 1st was 1.0 foot above zero on June 15th, 1.2 feet above; and on July 1st, 1.4 feet above.

MONTHLY AND ANNUAL TOTAL PRECIPITATION, ALPINE UTAH COUNTY, UTAH.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1894.....	.....	.....	.....	.....	.....	.....	0.55	1.65	.....	.....	.....	.....	.....
1895.....	2.17	1.17	0.98	1.62	.....	.....	.....	.....	.....	.....	.....	.....	.....
1896.....	1.45	1.55	1.58	1.32	3.04	0.66	2.68	0.81	0.91	0.31	1.40	0.33	15.
1897.....	1.38	3.50	1.80	1.03	1.31	0.47	0.54	0.8	1.77	1.86	0.99	1.27	16.
1898.....	0.91	0.45	1.05	1.24	4.59	1.43	0.19	0.94	0.05	0.92	1.18	0.63	13.
1899.....	2.36	4.29	1.59	.....	1.15	.....	.....	.....	.....	.....	1.32	0.87	.....
1900.....	0.26	0.66	T.	2.51	0.56	T.	0.08	0.43	1.20	1.55	3.49	0.70	11.
1901.....	0.98	2.94	.....	4.07	.....	.....	0.29	2.20	.....	1.67	.....	1.69	.....
1902.....	1.20	.....	1.76	2.39	0.60	0.38	T.	.....	.....	.....	.....	0.80	.....
1903.....	.....	0.66	.....	3.72	.....	.....	0.08	.....	.....	1.60	1.34	0.45	.....
1904.....	2.20	0.82	5.15	3.02	1.92	1.39	0.75	1.02	0.40	1.72	0	1.33	19
1905.....	0.79	3.39	3.47	3.98	1.75	0.15	0.73	0.61	4.21	0.15	1.13	1.90	22.
1906.....	1.93	1.16	4.19	3.07	4.13	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	1.42	1.87	2.16	2.24	2.44	0.55	0.58	0.97	1.42	1.22	1.36	0.98	16.

COMPARATIVE DATA FOR JUNE.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	65.0	116	22	0.46
1893	64.0	105	19	0.02
1894	61.5	106	15	0.84
1895	62.8	106	18	0.43
1896	70.0	112	21	0.20
1897	63.2	104	20	0.25
1898	65.2	110	22	0.78
1899	64.0	110	21	0.58
1900	69.7	111	30	0.16
1901	63.3	109	19	0.25
1902	66.9	114	21	0.17
1903	65.7	110	27	0.47
1904	63.3	102	21	0.47
1905	64.7	110	23	0.18
1906	62.2	106	22	0.59

THE GEOGRAPHIC SOCIETY OF CHICAGO.

A Series of Lantern Slides to be Used in the Study and Teaching of Meteorology.

"All teachers of physiography and meteorology are well aware of the difficulty of obtaining adequate material for illustration in the teaching of meteorology. Special maps for the study of types of storms can not be had in many cases; or, if obtained, require a great deal of care in storing and use, and deteriorate rapidly. Special data are often reduced to graphic form, making them of the highest teaching value, yet to be found only in costly volumes or rare publications. Such graphs are often too difficult of construction to be easily duplicated for class work. The relatively small number of schools offering work in meteorology discourages the manufacture and sale of slides by the regular dealers. Some year ago, the Geographic Society of Chicago (P. O. Box 223, Chicago, Ill.) decided to undertake the preparation of a list of slides to cover every phase of meteorology, and to offer these slides at a cost to teachers and schools."—*Extract from a circular published by the Geographic Society of Chicago.*

CLIMATOLOGICAL DATA, JUNE, 1906.

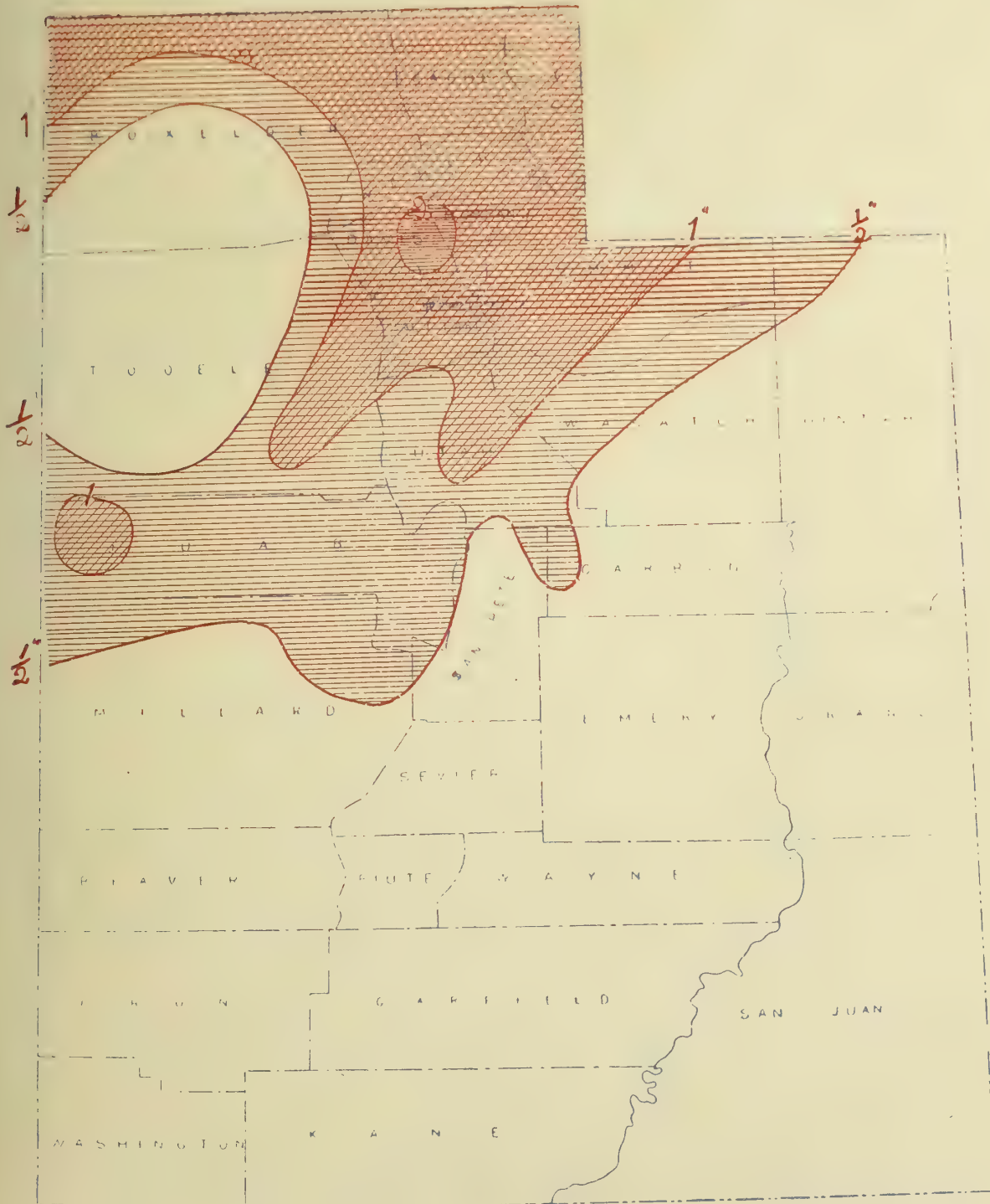
Sections and stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit							Precipitation, in inches.					Sky.				Prevailing direction of wind.	Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
NORTHERN.																					
Corinne - T1	Boxelder	4,240	36	62.6	-8.5	93	10	35	6	47	1.24	+0.69	0.43	0.0	4	10	9	4	s.	Agent So. Pacific R. R.	
Yanston, Wyo.	Uinta	6,959	10	51.4	.....	83	11	26	23	40	1.72	.....	0.80	2.0	6	20	6	4	sw.	Frank Tucker.
Armington	Davis	4,207	6	61.2	-4.8	90	*11	30	1	55	2.18	+1.89	1.05	0.0	5	20	6	4	nw.	Charles Boylin.	
St. Duchesne	Uinta	5,000	18	61.2	-4.4	95	12	31	8	50	0.10	-0.13	0.10	0.0	1	20	0	10	sw.	Post Surgeon.	
Leber	Wasatch	5,666	13	56.5	-3.0	90	11	27	22	48	1.10	+0.69	0.65	0.0	3	18	6	6	s.	John Crook.	
Leber	Summit	5,301	7	55.7	-3.7	87	11	27	*8	51	1.81	+1.56	0.53	0.0	7	15	10	5	w.	William Brewer.	
Leber	Weber	5,100	11	.....	.....	.....	.....	.....	.....	.....	1.47	+1.00	0.57	0.0	6	16	12	2	nw.	Lars Petersen.
Leber	Boxelder	4,230	28	.....	.....	.....	.....	.....	.....	.....	0.52	+0.22	0.21	0.0	3	6	15	9	w.	Agent So. Pacific Co.
Leber	Cache	4,507	15	56.4	-7.3	82	20	34	4	39	1.43	+0.83	0.57	0.0	5	.....	.....	.....	.....	Agricultural College.
Leber	Boxelder	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific R. R.
Leber	Rich	6,200	7	53.3	-3.5	81	12	29	8	43	1.30	+0.69	1.45	T.	6	20	2	8	w.	J. S. Moffat.	
Leber	Cache	4,848	11	.....	.....	.....	.....	.....	.....	.....	1.56	+0.98	0.40	0.0	6	.....	.....	.....	.....	Fred Yeates.
Leber	Morgan	5,880	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. R. G. Welch.
Leber	Weber	4,310	5	63.3	-4.9	91	11	35	7	33	1.47	+1.06	0.86	0.0	4	17	10	2	nw.	Enoch Farr.	
Leber	Weber	4,310	36	63.3	-8.6	89	12	40	7	.....	1.00	+0.45	0.65	0.0	3	14	6	10	n & w	W. H. Chevers.
Leber	Summit	7,800	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. S. McKimmins.
Leber	Bannock	4,483	6	58.0	-4.0	85	11	37	1	35	1.66	+0.57	0.99	0.0	7	15	12	3	se.	Weather Bureau.	
Leber	Rich	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.35	T.	9	16	7	7	sw.	Wm. Rex.
Leber	Salt Lake	.....	2	63.1	.....	86	12	40	6	30	1.35	.....	0.72	0.0	6	.....	.....	.....	.....	Francis W. Bailey.
Leber	Salt Lake	4,366	32	62.4	-4.5	91	11	37	5	35	1.49	+0.70	0.87	0.0	5	15	8	7	nw.	Section Center.	
Leber	Boxelder	4,366	16	55.2	-6.4	87	11	89	*7	50	1.49	+1.01	0.65	0.0	4	16	12	2	s.	Joseph Robbins.	
Leber	Wasatch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. B. Larson.
Leber	Wasatch	5,507	.....	61.3	.....	92	12	32	8	44	0.12	.....	0.12	0.0	1	13	10	7	.....	M. M. Smith.
Leber	Tooele	4,900	10	61.3	-5.5	87	12	35	*6	33	1.14	+0.57	0.64	0.0	5	23	4	3	s	I. J. Elkington.	
Leber	Uinta	.....	11	64.8	-2.2	94	12	24	7	44	0.25	-0.14	0.14	0.0	3	21	6	3	.....	Joab Collier.
Leber	Rich	6,500	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thomas Ashton.
Averages				60.1	-5.6	.....	.....	.....	.....	.....	1.20	+0.53	.....	T.	5	17	7	6	sanw	
MIDDLE.																					
Black Rock	Millard	4,872	6	62.3	-2.0	95	11	32	7	53	0.12	-0.14	0.10	0.0	3	20	10	0	s.	Willard Burbank.	
Castle Dale - T3	Emery	5,500	7	57.8	-6.3	90	12	24	8	53	T.	-0.33	T.	0.0	0	20	9	0	.....	James Jeffs.
Deseret	Millard	4,541	12	62.4	-3.4	93	11	32	*7	53	0.19	-0.12	0.12	0.0	4	18	8	4	n.	S. W. Western.	
Emery	Emery	6,260	6	59.6	+0.8	89	12	31	3	45	T.	-0.43	T.	0.0	0	17	5	8	sw.	H. C. Wickman.	
Elmore	Millard	5,100	16	64.9	-3.2	99	15	34	7	48	0.40	-0.19	0.25	0.0	6	.....	.....	.....	.....	J. J. Starley.
Farrington	Millard	.....	3	62.3	.....	94	11	30	7	55	0.06	.....	0.06	0.0	1	23	2	5	s.	E. M. Smith.
Gov'm't Creek	Tooele	5,277	6	60.1	-4.3	89	*12	30	7	42	1.19	+1.02	0.75	0.0	4	19	3	8	s.	Walter James.	
Grand Junction, Col.	Mesa	4,668	15	68.6	-3.2	97	12	41	8	41	0.04	-0.31	0.04	0.0	1	19	8	3	nw.	Weather Bureau.	
Green River	Emery	4,080	9	69.0	-4.8	100	*13	34	8	57	0.00	-0.07	0.00	0.0	0	29	0	1	.....	Louis C. Farrer.
Hatch	Tooele	.....	3	55.6	.....	91	11	26	7	53	0.70	.....	0.25	0.0	3	20	10	0	.....	Owen Sheridan.
Kanab	Sanpete	.....	1	.....	.....	.....	.....	.....	.....	.....	0.04	.....	0.03	0.0	2	.....	.....	.....	.....	R. H. Spencer.
Kanab	Juab	5,010	16	60.0	-4.3	88	*11	32	7	46	0.57	+0.05	0.26	0.0	4	20	8	6	sw.	William Brown.	
Kanab	Sanpete	5,575	12	58.6	-7.7	90	11	33	*8	48	0.36	+0.23	0.20	0.0	4	0	23	1	.....	W. M. Harmon.
Kanab	Utah	4,650	5	66.2	-0.8	91	*12	35	6	39	0.49	+0.24	0.30	0.0	4	19	9	2	n.	D. C. Walkey.	
Kanab	Sanpete	5,859	14	63.0	-1.8	90	10	34	*22	54	0.48	+0.03	0.48	0.0	1	15	7	0	.....	Web Greene.
Kanab	Juab	.....	1	.....	.....	.....	.....	.....	.....	.....	0.61	.....	0.33	0.0	3	17	10	3	.....	A. Madsen.
Kanab	Millard	.....	1	63.1	.....	92	11	33	7	47	0.58	.....	0.36	0.0	3	15	3	1	.....	J. Finlinson.
Kanab	Utah	4,637	1	.....	.....	.....	.....	.....	.....	.....	1.31	.....	0.49	0.0	3	15	11	4	sw.	D. L. Coombs.
Kanab	Utah	1,532	14	67.0	+2.4	103	12	35	9	61	1.45	+1.01	0.75	0.0	2	22	5	3	sw.	W. K. Henry.	
Kanab	Sevier	5,350	16	60.2	-3.9	93	11	30	8	54	0.10	-0.20	0.05	0.0	2	20	7	3	.....	Anton Nielsen.
Kanab	Millard	5,260	11	59.4	-5.0	92	11	29	*8	50	0.71	+0.41	0.46	0.0	4	15	9	6	sw.	Thomas Memmott.	
Kanab	Utah	7,474	14	54.3	-0.9	95	11	22	24	52	0.21	+0.01	0.18	.....	2	19	0	11	.....	Agent Rio Grande R. R.
Kanab	Utah	5,775	14	66.6	+3.5	102	20	32	4	65	0.80	+0.45	0.70	0.0	2	25	2	3	.....	Ag't. Rio Grande W. R. R.
Kanab	Juab	.....	1	60.0	.....	92	*11	31	7	51	1.70	.....	0.90	0.0	2	20	6	4	.....	E. E. Edwards.
Kanab	Utah	.....	1	64.4	.....	90	12	33	22	42	0.70	.....	0.36	0.0	4	15	6	9	n.	W. A. Knight.
Kanab	Carbon	5,540	7	62.0	-2.8	96	10	30	7	54	0.00	-0.38	0.00	0.0	0	.....	.....	.....	.....	E. E. Branch.
Averages				61.2	-2.4	.....	.....	.....	.....	.....	0.49	+0.17	.....	0.0	3	20	6	4	sw.	
SOUTHERN.																					
Alton	San Juan	4,800	6	70.9	-1.3	98	*2	42	8	51	0.00	-0.34	0.00	0.0	0	26	4	0	w.	Miss S. Hubert.	
Beaver	Beaver	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. B. Anderson.
Bedford City	Iron	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. R. V. Smith.
Bozoyto	Garfield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. J. McCullough.
Caliente - T13	Garfield	5,700	6	62.8	-4.0	88	11	37	*6	41	0.00	-0.41	0.00	0.0	0	13	4	4	.....	Geo. H. Barney.
Exper. Farm #1	Washington	.....	2	73.0	.....	101	11	44	7	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joseph T. Atkin.
Frisco	Beaver	7,318	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. Albert Warren.
Flies	Wayne	4,000	11	66.3	-3.7	95	*10	32	8	56	0.03	-0.22	0.00	0.0	0	24	4	2	.....	J. C. White.
Hayson	San Juan	.....	1	65.5	.....	102	21	34	7	54	0.00	.....	0.00	0.0	0	26	3	1	s.	Joseph D. Lyman.
Leite	Garfield	3,000	7	75.6	-3.3	102	*11	48	1	48	T.	-0.12	T.	0.0	30	0	0	0	.....	F. W. Gibbons.
Leite	Kane	4,925	6	62.6	.....	92	11	31	7	48	0.00	.....	0.00	0.0	0	26	0	3	.....	E. M. Ford.
Leite	San Juan	7,060	6	60.3	-1.8	85	13	34	24	37	0.00	-0.43	0.00	0.0	0	17	0	1	.....	Mrs. G. W. Carpenter.
Leite	Wayne	7,100	14	58.6	-0.9	92	11	28	8	48	0.00	-0.18	0.00	0.0	0	.....	.....	.....	.....	Michael Hansen.
Leite	Piute	6,180	7	59.2	-2.5	92	11	27	8	56	0.01	-0.40	0.01	0.0	1	16	5	9	s.	John W	

CONTENTS.

* Indicates 100: *, 101, etc.

* Indicates loc: *1, 101, etc.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, JUNE, 1906.

Sections and stations.	Day of month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTHERN.																																
Alpine																																
Alta																																
Blacksmith's Fork				.27	.19	.14	.04									.10							.10				.06	.34				1.24
Castle Rock				.60	.27	.08																	.10	.30					.55			1.90
Corinne			T.	.30	.19											.32												.43				1.24
Evanston, Wyo				.80	.24	.03																	.17	.15					.33			1.72
Farmington	.09	T.	.03	.18	.83											T.								.05				1.05				2.18
Ft. Duchesne				.16	*																		T.					T.				0.10
Heber				*	.65																							T.	.45			1.10
Henefer	.05			.46	.53	.05										T.							.17					T.	.51			1.81
Huntsville	T.	.08	.25	.32	.20											.05							T.						.57			1.14
Kelton	T.	.12		.21												T.													.19			0.52
Logan				.57	.14											.21	.06													.45		1.43
Lucin																																
Marion	T.			.25	.27											.60												*	.10			1.22
Meadowville	T.			.30	.45											T.	.05							.15	.10		.25					1.30
Millville				.49	.35	.05										.25								.09			T.	.39				1.56
Morgan																																
Ogden No. 1		T.		.30	.18	T.										.13													.86			1.47
Ogden No. 2		T.	T.	.18	T.																							*	.65			1.00
Park City																																
Pocatello, Idaho	T.	.02	.11	.99	.03											.24								.02				T.	.25			1.66
Randolph	.09	T.	.05	T.	.35			.15								.09							.15	.07				T.	.06	.09		1.10
Saltair Beach				T.	.10	.25	.06									.12	.10												.72			1.35
Salt Lake City		T.	T.	.25	.24	.08										.05	.10						T.				T.	.87			1.19	
Snowville				.65												.12											T.	*	.72			1.49
Strawberry Valley																																
Theodore					T.																									.12		0.12
Tooele			.13	.27	.08											.02													.64			1.14
Vernal (near)				.14																	T.		.06				*	.05			0.25	
Woodruff																																
MIDDLE.																																
Black Rock				T.												.10					.01								.01			0.12
Castle Dale			T.	*																											T.	
Clear Creek				T.	.33											.22												.10				
Deseret		.03		.02												.02													.12			0.19
Emery																													T.			T.
Fillmore	.01			.07	.02											.03													.02	.25		0.40
Garrison	.06		T.													T.												T.	T.			0.66
Government Creek	.12	T.	T.	.30												T.	.02											T.	*	.75		1.10
Grand Junction, Colo			T.	.04																		T.										0.10
Green River																																0.00
Idapah			.25	.20																							.25					0.70
Indianola																										.01	.03					0.04
Levan				.26												.04													.03	.24		0.57
Manti					.03												.10											T.	.20	.03		0.30
Mount Nebo		T.		.07	.30																						T.	.02	.10			0.49
Mount Pleasant																													.48			0.48
Nephi				.26	.07																							.01	.27			0.61
Oak City				.20																									.35			0.58
Payson				.45	.49											T.													.37			1.31
Provo					.70																								.75	T.		1.45
Richfield																.05												T.	.05			0.10
Scipio	T.	T.		T.	.15											.03											T.	.07	.46			0.71
Soldier Summit				.18																									.03			0.21
Sunnyside			T.	.07																									.04	.09		0.20
Thistle					.70																								.10			0.80
Trout Creek					.80																								.90			1.70
Utah Lake Pumping Station			.03	*	.31											T.	T.						T.				T.	T.	.36			0.70
Wellington																																0.00
SOUTHERN.																																
Aneth																																0.00
Beaver																																
Cedar City																																
Coyote																																
Escalante																																0.00
Enterprise																																0.33
Frisco																																
Gile																																0.00
Grayson																																

T indicates a trace of precipitation.

* Precipitation included in that of following day.

† Precipitation incomplete.

681.03
UNE
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

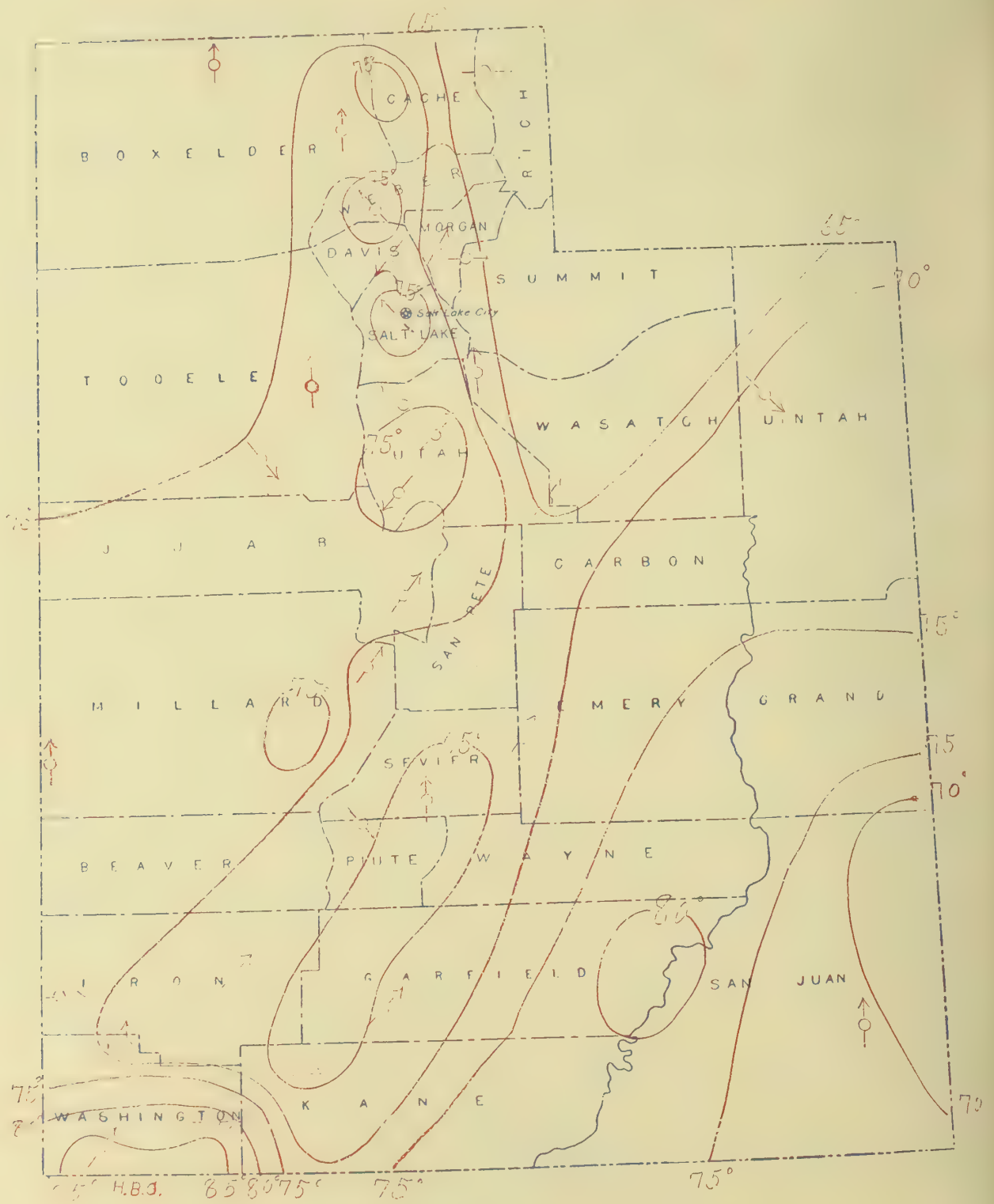
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

AUGUST 23, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VIII. SALT LAKE CITY, UTAH, JULY, 1906. No. 9.

GENERAL SUMMARY.

The atmospheric pressure distribution over the State during the month bore a close relation to the weather conditions that prevailed. An immense high air pressure area overlay the Rocky Mountains during the first few days of the month, producing most of the monthly minimum temperatures, and numerous frosts in the more elevated districts. Thereafter, throughout the remainder of the month, the air pressure was relatively low over this section, causing abnormal cloudiness, and unusual sultriness. These conditions culminated in a maximum about the beginning of the last decade, when the weather was exceptionally warm generally over the State, notwithstanding the dearth of sunshine. The cloudiness, however, over the southern portion of the State was conducive to somewhat lower temperatures, compared with the normal.

Under the domination of high pressure, the weather of the first few days of the month was dry. This condition was, however, of brief duration, for the relatively low pressure that prevailed thereafter was productive of thundershowers over the State, particularly in the middle and southern portions, where a number of storms and the amount of precipitation were considerable. Local freshets caused some slight damage at intervals during the month, but generally the heavy rains were favorable to all interests. While parts of the northern portion of the State received insufficient moisture, the precipitation over the greater portion of this section was amply sufficient for all purposes. A record of thunderstorm frequency was established at a large number of stations during the month, local thunderstorms occurring almost daily at some places. While considerable local damage was reported by wind, hail and high water, the weather was generally favorable throughout the month.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 52 stations, was 71.6° , or 0.1° below the normal. The highest local monthly mean was 85.3° at St. George; the lowest was 63.6° at Coyote. The highest temperature recorded was 94° at St. George on the 6th; the lowest was 26° at Coyote on the 1st, giving an absolute range for the section of 68° . The greatest daily range for any station was 62° at Soldier Summit on the 17th. The highest temperatures of the month were generally recorded on the 21st and 22nd, and the lowest generally recorded on the 4th.

PRECIPITATION.

The average precipitation, determined from the reports of 61 stations, was 0.85 inch, or 0.08 inch above the normal. The excess increased from north to south. The greatest monthly amount was 2.99 inches at Tropic, and the least a trace at Farmington, Saltair and Indianola. The greatest precipitation in any 24 consecutive hours was 1.92 inches at Tropic on the 26th. There was an average of 5 days with 0.01 inch or more of precipitation; 3 over the northern portion, 5 over the middle portion, and 8 over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 4,441; at Modena, 6,776; at Grand Junction, Colo., 3,562; and at Pocatello, Idaho, 5,061. The maximum velocity at Salt Lake City was 42 miles per hour from the west on the 22nd; at Modena, 39 miles from the southwest on the 3rd; at Grand Junction, Colo., 28 miles from the northwest on the 13th; and at Pocatello, Idaho, 28 miles from the northwest on the 9th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 15; partly cloudy days, 11; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 69 per cent; Modena 72 per cent; Grand Junction, Colo., 62 per cent; and Pocatello, Idaho, 87 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 38 per cent, the lowest observed reading being 14 per cent on the 19th; at Modena, 48 per cent, the lowest observed reading being 10 per cent on the 29th; at Grand Junction, Colo., 41 per cent, the lowest observed reading being 15 per cent on the 31st; and at Pocatello, Idaho, 40 per cent, the lowest observed reading being 8 per cent on the 18th.

OBSERVERS' REMARKS.

Alpine.—The weather has been very changeable during the past month; the latter part, especially, was sultry at times.—Thomas B. Whitby.

Government Creek.—This has been a warm, sultry month, with many thunderstorms and some high winds.—Walter James.

Grayson.—The weather during the past month was characterized by numerous showers and thunderstorms. Some snow fell on the mountains.—Joseph A. Lyman.

Heber.—July has been a remarkable month for sunshine. There were clouds all around us, but the sky was clear over the valley; we had only one cloudy day. Many thunderstorms passed over the valley, most of which came from the west, and followed the north and south mountain ranges.—John Crook.

Henefer.—Although the precipitation was below normal, there was no drouth. The streams have been keeping up well.—William Brewer.

Huntsville.—This has been a very warm and dry month.—Lars Petersen.

Kanab.—The past month was remarkable for its numerous

thunderstorms. Some of the thunderclaps were the loudest ever heard at this place.—E. M. Ford.

Levan.—This has been an ideal summer month, with plenty of thundershowers.—William Brown.

Marion.—There were thirteen heavy thunderstorms in the southwest, but very few at this place.—James Woolstenhulme.

Marysville.—The month has been generally cloudy. On account of the deep banks of snow still in the mountains, irrigation water is holding out well.—John W. Henry.

Meadowville.—The past month has been very warm, with cool nights.—J. S. Moffat.

Moab.—The weather has been changeable. On July 3rd, from 6.30 a. m. to 7.00 a. m., the temperature fell 5° on account of a passing thunderstorm.—Henry Crouse.

Mt. Nebo.—The weather has been warm, with much cloudiness and frequent thunderstorms.—D. C. Walkey.

Nephi.—Thunderstorms were numerous, and the water supply sufficient.—Alfred M. Madsen.

Pinto.—Vivid lightning, accompanied by heavy thunder, occurred on the 9th. On the 16th, 0.70 inch of rain fell in 25 minutes.—John H. Harrison.

Ranch.—With the exception of the numerous thunderstorms, this has been a very favorable month.—J. W. Seaman.

Richfield.—Though no heavy rainstorms, we have had more thunder and lightning, and more cloudy days this month than ever before.—Anton Nielsen.

Snowville.—Thunderstorms were frequent, and hail as large as marbles fell on the 9th.—J. Robbins.

Sunnyside.—This has been a record-breaking month for thunderstorms and copious precipitation.—Henry Cullum.

Theodore.—Although streams have fallen about to their lowest water mark, yet there is plenty of water for all purposes.—M. M. Smith.

Tropic.—Excepting the 1st, 10th and 24th, thunder occurred every day. Precipitation was much above normal.—E. P. Bolton.

MISCELLANEOUS PHENOMENA.

Hail.—Enterprise, 14; Giles, 7; Government Creek, 26, 31; Heber, 13; La Sal, 4; Meadowville, 8; Modena, 31; Nephi, 9, 31; Parowan, 7; St. George, 4; Snowville, 9; Sunnyside, 3, 7, 9, 24; Tropic, 11, 27.

High winds.—Enterprise, 7; Farmington, 3; Garrison, 2, 5, 7; Government Creek, 9, 20, 29–31; Henefer, 2, 6; La Sal, 29; Modena, 22; Nephi, 14; Ogden No. 1, 2, 3; Salt Lake City, 3, 13, 17, 22, 30, 31; Scipio, 31; Thistle, 7, 14; Utah Lake, 18, 31.

Thunderstorms.—Alpine, 18, 30; Castle Rock, 6, 8–10, 14, 15, 18, 20, 23, 31; Coyoto, 7; Enterprise, 3, 6–9, 14–16; Farmington, 6, 30, 31; Giles, 2, 6–8, 11, 25; Government Creek, 15–19, 26, 30, 31; Grayson, 18; Heber, 7, 9, 13, 14, 20, 22, 31; Henefer, 6, 8, 13, 18, 31; Huntsville, 9, 16, 31; La Sal, 4, 6, 8, 26, 27; Levan, 5, 7, 9, 13–15, 17, 18, 20, 22, 25, 26, 31; Marion, 6, 9, 13, 17, 18, 28, 31; Marysville, 3, 6, 7, 13, 14, 16, 30; Meadowville, 6–10, 13, 22, 23, 31; Moab, 3, 5–7, 13, 18–20, 28, 29, 31; Modena, 2–11, 13–17, 22–27, 31; Morgan, 6, 9, 15, 18, 31; Mt. Nebo, 8–10, 13–15, 20, 25, 31; Nephi, 8, 9, 14, 15, 18–20, 22, 25, 31; Nephi (near), 17, 18, 23, 25, 26, 31; Oak City, 21, 22, 26, 31; Ogden No. 1, 9; Ogden No. 2, 30, 31; Parowan, 6, 7, 9, 20, 22, 26; Pinto, 2–17, 26–29; Plateau, 2, 4, 5, 17, 23, 26, 27; Provo, 7, 9, 13–16, 18, 21; Ranch, 4, 6, 7, 15–27, 28; Richfield, 2, 5–7, 9, 13, 14, 16, 17, 19, 20, 22, 23, 26–31; Salt Lake City, 6, 9, 13, 14, 17, 18, 20, 22, 23, 26, 30, 31; St. George, 2, 10, 22; Scipio,

4, 22–25, 31; Snowville, 6, 8–10, 17; Sunnyside, 7, 9, 11–13, 23, 24, 31; Theodore, 2, 6–9, 17, 18, 20, 23; Tooele, 9, 13–20–22, 31; Tropic, 2–9, 11–23, 25–31; Utah Lake, 6, 8, 9, 14, 16, 19, 22, 23, 31.

CORRECTIONS FOR MAY.

Pages 37 and 40: Scipio—Total precipitation recorded 2 inches, should be 2.05; departure from the normal recorded +0.68, should be +0.61.

Page 37: Snowville—Mean temperature and departure from the normal recorded 49.3° —5.3°, should be 51.3° —3.3°, respectively.

WATER STAGES.

The level of Great Salt Lake on July 1st was 1.4 feet above zero; on July 15th, 1.2 feet above; and on August 1st, 0.9 feet above.

MONTHLY AND ANNUAL TOTAL PRECIPITATION, MILLVILLE, CACHE COUNTY, UTAH.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1894.....	2.09	0.82	2.50	.....	2.50	0.99	0.46	0.07	.....	.....	.....	.....
1895.....	1.46	0.35	2.69	2.06	3.02	0.45	1.52	1.15	1.56	0.97	2.12	0.81
1896.....	1.10	2.51	3.39	.....	0.49	0.66	0.74	0.47	1.70	2.66	1.84	1.84
1897.....	1.17	0.53	1.63	0.80	1.71	0.55	0.10	0.11	0.26	1.62	1.46	0.66
1898.....	1.50	1.95	2.55	1.15	1.50	0.86	0.26	1.16	0	2.84	1.53	1.48
1899.....	0.49	1.07	0.64	4.03	1.52	.....	0	0.34	1.20	1.88	2.75	0.13
1900.....	1.33	1.12	0.80	0.91	2.39	0.34	0.03	2.47	0.91	2.29	0.18	1.17
1901.....	0.39	1.19	0.37	2.92	1.97	0.31	0.46	0.32	0.12	0.43	2.23	1.58
1902.....	2.97	0.22	1.69	1.78	2.99	0.46	0.45	0.10	0.87	1.28	3.34	0.76
1903.....	1.16	3.12	4.02	1.88	1.65	0.42	0.59	0.91	0.30	1.29	0.04	0.91
1904.....	1.70	0.64	2.08	2.13	2.11	0.76	0.18	0.95	1.83	0.71	0.41	0.34
1905.....	1.59	1.05	2.54	2.74	4.64	1.56	0.13	.....	.....	.....	.....	.....
1906.....	1.41	1.21	2.08	2.04	2.21	0.67	0.40	0.67	1.00	1.46	1.67	1.01
Mean.....	1.41	1.21	2.08	2.04	2.21	0.67	0.40	0.67	1.00	1.46	1.67	1.01

COMPARATIVE DATA FOR JULY.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	72.8	110	27	0.28
1893	70.8	110	24	0.79
1894	70.4	109	26	0.71
1895	70.0	110	33	0.57
1896	72.0	111	33	1.81
1897	68.7	110	23	0.55
1898	73.4	115	28	0.35
1899	73.3	107	30	0.66
1900	72.6	111	30	0.09
1901	75.5	115	27	0.41
1902	68.4	112	17	0.32
1903	71.0	110	27	0.52
1904	69.7	109	27	0.68
1905	71.5	112	26	0.52
1906	71.6	110	30	0.85

SEASONAL TEMPERATURE.

"In Oregon and Washington, on the southern California coast, over the northern portion of the Lake region, along the southern New England and middle Atlantic coasts, in extreme southern Florida, and at a few stations on the central and west Gulf coasts the mean temperature for the period from March 1 to July 30, 1906, (62 days), is slightly above the seasonal average, the excess being as much as 1° per day, except at a few stations. Over nearly the whole country, however, the seasonal temperature is below the average, the deficiency ranging from 1° to more than 2° per day in northern New England and throughout the central valleys and the greater part of the Rocky mountain region."—*National Weather Bulletin for the week ending July 30, 1906.*

CLIMATOLOGICAL DATA, JULY, 1906.

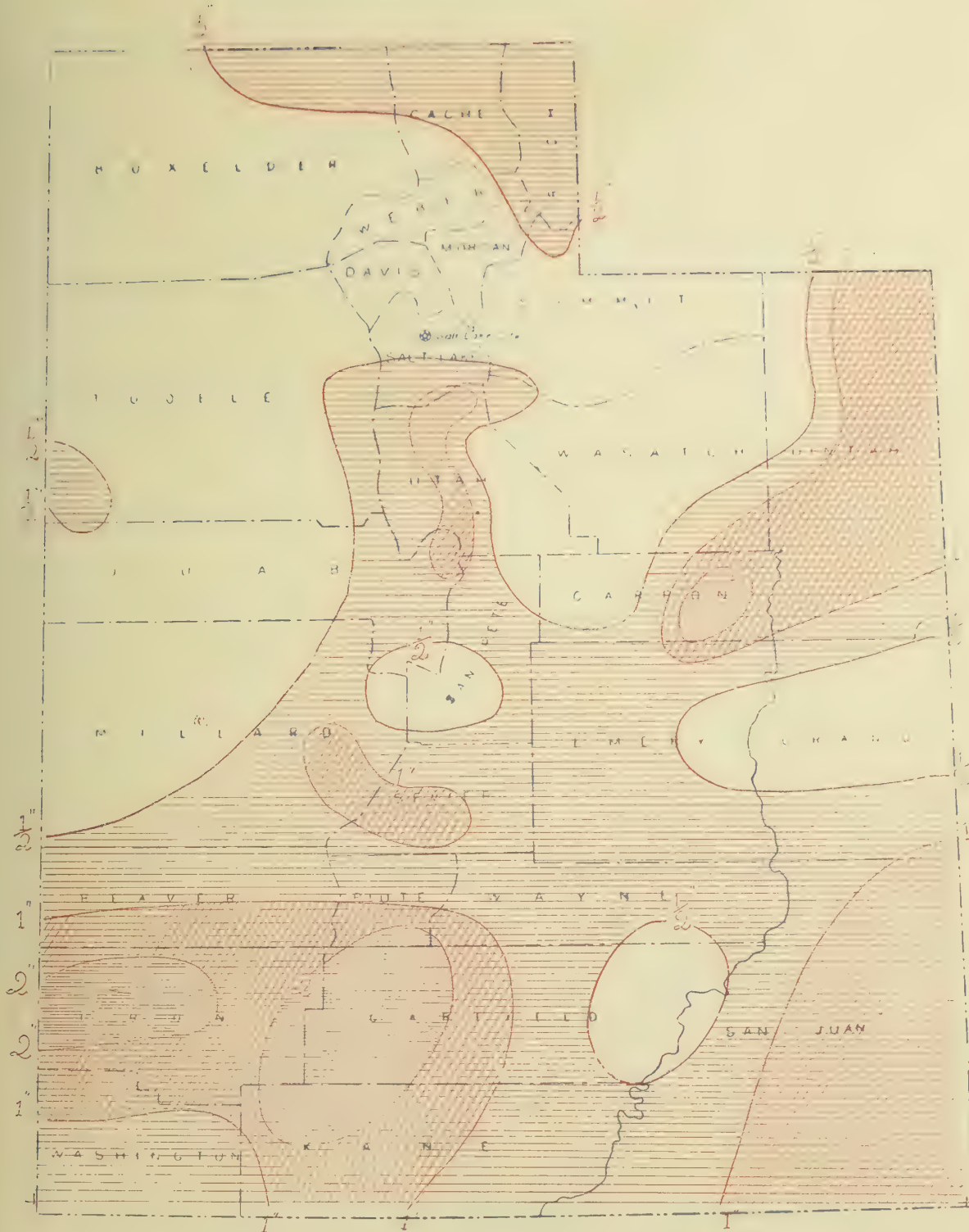
Sections and stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches.					Sky.			Prevailing direction of wind.	Observers	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine	Utah	4,900	10								1.26	+0.68	0.37	0.0	5					T. B. Whitby.
Corinne	Boxelder	4,240	36	73.6	-5.6	106	22	42	1	48	0.10	-0.34	0.10	0.0	1	25	5	1	8.	Agent So. Pacific R. R.
Farmington	Davis	4,267	6	73.9	+1.6	94	24	54	*7	37	T.	-0.48	T.	0.0	0	28	3	0	ne.	Charles Boylin.
St. Duchesne	Uinta	5,000	18	70.0	-1.1	95	25	45	*2	42	0.30	-0.20	0.15	0.0	2	5	26	0	nw.	Post Surgeon.
Heber	Wasatch	5,606	13	66.4	+0.6	94	20	38	4	47	0.97	+0.16	0.53	0.0	4	22	8	1	8.	John Crook.
Henrieville	Summit	5,301	7	65.4	+1.1	92	21	38	*4	50	0.29	-0.16	0.11	0.0	5	22	7	2	w.	William Brewer.
Monticello	Weber	5,100	11								0.09	-0.29	0.09	0.0	1	23	7	1		Lars Petersen.
Alton	Boxelder	4,230	28								0.38	+0.01	0.20	0.0	2	19	6	6	w.	Agent So. Pacific Co.
Logan	Cache	4,507	15	75.6	+4.5	97	21	54	9	33	0.71	+0.32	0.63	0.0	3					Agricultural College.
Alcova	Boxelder		1																	Agent So. Pacific R. R.
Headville	Rich	6,200	7	64.2	-0.3	91	22	38	4	42	0.90	+0.35	0.80	0.0	2	27	2	2	w.	J. S. Moffat.
Millville	Cache	4,848	11								0.13	-0.29	0.13	0.0	1					Fred Yeates.
Morgan	Morgan	5,680	3	66.4		90	*20	40	1	44	0.11		0.05	0.0	3	19	12	0	sw.	T. R. G. Welch.
Golden No. 1-T1	Weber	4,310	5	74.4	+0.8	96	21	57	*16	35	0.44	+0.16	0.33	0.0	2	24	5	1	se.	Enoch Farr.
Golden No. 2-T1	Weber	4,310	36	75.3	-3.9	97	20	55	4		0.20	-0.03	0.20	0.0	1	24	2	5		W. H. Chevers.
Park City	Summit	7,800	9																	P. S. McKimmins.
Pocatello, Idaho	Bannock	4,483	6	72.6	+3.0	95	21	49	1	40	0.59	+0.14	0.48	0.0	2	22	9	0	se.	Weather Bureau.
Randolph	Rich		1																	Wm. Rex.
Altair Beach	Salt Lake		2	74.1		92	*21	60	*7	27	T.		T.	0.0	0					Francis W. Bailey.
Salt Lake City	Salt Lake	4,366	32	76.2	+0.7	96	21	60	29	33	0.23	-0.30	0.11	0.0	4	21	6	4	se.	Section Center.
Albionville	Boxelder	4,360	16	69.4	+0.4	98	22	40	19	52	0.54	+0.17	0.26	0.0	4	7	21	3	s.	Joseph Robbins.
Strawberry Val.	Wasatch																			A. B. Larson.
Theodore	Wasatch	5,507		69.4		92	*13	44	*4	40	0.56		0.14	0.0	7	4	25	2		M. M. Smith.
Tooele	Tooele	4,900	10	74.8	+1.2	97	22	55	1	34	0.61	+0.19	0.23	0.0	6	21	9	1	8	I. J. Elkington.
Ormal (near)	Uinta		11	71.5	0	94	19	48	2	39	1.18	+0.44	0.39	0.0	8	22	4	5		Joab Collier.
Woodruff	Rich	6,500	9																	Thomas Ashton.
Averages				71.3	-0.4						0.41	+0.01		0.0	3	19	10	2	s.	
MIDDLE.																				
Black Rock	Millard	4,872	6																	Willard Burbank.
Castle Dale - T2	Emery	5,500	7	66.6	-1.6	93	21	40	*5	47	0.77	+0.25	0.27	0.0	5	11	19	0		James Jeffs.
Deseret	Millard	4,541	12	72.6	+0.9	98	21	45	4	47	0.27	+0.17	0.15	0.0	3	17	8	6	n.	S. W. Western.
Emery	Emery	6,260	6	68.2	+4.7	89	*24	40	21	41	0.75	+0.61	0.40	0.0	2	1	3	27	sw.	H. C. Wickman.
Fillmore	Millard	5,100	16	77.2	+2.2	102	*21	51	*1	44	1.27	+0.75	0.60	0.0	8					J. J. Starley.
Harrison - T2	Millard		3	72.8		97	21	46	4	40	0.33		0.25	0.0	2	7	5	17	s.	E. M. Smith.
Low mnt Creek	Tooele	5,277	6	73.6	+0.5	95	*20	50	*1	38	0.43	+0.16	0.13	0.0	5	18	10	3	nw.	Walter James.
Green Junction, Col.	Mesa	4,668	15	75.6	-2.2	99	22	54	8	35	0.34	-0.21	0.14	0.0	5	12	15	4	e.	Weather Bureau.
Green River - T1	Emery	4,080	9	79.0	-0.2	105	22	53	6	44	0.05	-0.12	0.05	0.0	1	26	0	5		Louis C. Farrer.
Hatch	Tooele		3	66.9		95	21	37	4	51	0.95		0.50	0.0	3	13	15	3		Owen Sheridan.
Indianola	Sanpete		1								T.		T.	0.0	0					R. H. Spencer.
Levan	Juab	5,010	16	71.1	-0.5	93	22	51	4	34	0.79	+0.18	0.42	0.0	7	21	8	2	sw.	William Brown.
Laurel - T4	Sanpete	5,575	12	69.8	-1.1	93	22	48	*7	39	0.45	-0.05	0.6	0.0	3	0	24	0		W. M. Harmon.
Laurel, Neb.	Utah	4,650	4	76.9	+3.8	96	24	54	2	31	0.77	+0.51	0.19	0.0	8	15	16	0	ne.	D. C. Walkey.
St. Pleasant - T1	Sanpete	5,859	14	72.7	+0.6	95	21	51	4	37	0.90	+0.22	0.42	0.0	4	16	15	0		Web Greene.
Alphington	Juab		2								1.45		0.35	0.0	11	17	10	4		A. Madsen.
Park City - T6	Millard		1	74.8		95	*23	51	14	38	0.83		0.29	0.0	5	18	11	2		J. Finlison.
Payson	Utah	4,637	1								1.01		0.27	0.0	7	19	9	3	sw.	D. L. Coombs.
Provo	Utah	4,532	14	76.8	+4.0	105	22	51	5	50	0.10	-0.13	0.10	0.0	1	18	3	0	sw.	W. K. Henry.
Richfield	Sevier	5,350	16	68.6	+2.2	94	21	37	9	47	0.85	+0.51	0.19	0.0	11	9	19	3		Anton Nielsen.
Cipio	Millard	5,200	11	69.0	-1.3	95	22	43	*3	50	0.46	-0.16	0.20	0.0	5	14	1	16	sw.	Thomas Menmott.
Older Summit	Utah	7,474	14	64.6	+2.4	98	*1	30	6	62	0.19	-0.39	0.06	0.0	4	16	0	15	sw.	Agent Rio Grande R. R.
Whistle	Utah	5,075	14	71.8	+1.7	105	24	40	*1	61	0.10	-0.43	0.10	0.0	1	29	0	2		Ag't. Rio Grande W. R. R.
Trout Creek	Juab		1	72.0		96	*21	46	5	42	0.28		0.10	0.0	7	13	14	4		E. E. Edwards.
Utah Lake Emp. Sta	Utah		1	71.4		94	*23	46	5	43	1.60		0.50	0.0	9	11	15	5	se.	W. A. Knight.
Wellington - T2	Carbon	5,540	7	70.1	+0.9	95	*14	42	3	46	0.35	+0.09	0.15	0.0	3					E. E. Branch.
Averages				70.7	+0.6						0.76	+0.06		0.0	5	16	10	5	sw.	
SOUTHERN.																				
Albion	San Juan	4,800	6								1.20	+0.80								Miss S. Hubert.
Beaver	Beaver		1																	A. B. Anderson.
Bedford City	Iron																			Prof. R. V. Smith.
Boynton	Garfield		5	63.6	+1.5	91	22	26	1	60	2.01	+1.57	0.72	0.0	10	12	7	12		H. J. McCullough.
Caliente	Garfield	5,700	0								10.87		0.44	0.0	17	1	2	9		Geo. H. Barney.
Exper. Farm	Washington		2	81.6		107	22	56	5	41						17	0	14		Joseph T. Atkin.
Escalante	Beaver	7,318	12																	Prof. Albert Warren.
Escalante	Wayne	4,000	11	75.0	-2.4	106	22	48	4	49	0.65	+0.15	0.15	0.0	6	13	15	3		J. C. White.
Escalante	San Juan		1	71.5		94	*21	48	*4	39	1.38		0.51	0.0	5	9	12	10	s.	Joseph D. Lyman.
Escalante	Garfield	3,000	7	83.3	-1.2	106	21	58	7	42	0.45	+0.23	0.25	0.0	2	7	24	0		F. W. Gibbons.
Escalante	Kane	4,925	6	69.3		94	21	43	*1	50	1.30		0.50	0.0	6	10	19	2		E. M. Ford.
Escalante	San Juan	7,000	6	65.2	-2.7	89	22	42	8	35	1.37	+0.73	0.25	0.0	11	10	18	1		Mrs. G. W. Carpenter.
Escalante	Wayne	7,000	14	64.8	-1.3	91	2	40	*4	47	0.90	-0.02	0.25	0.0	5					Michael Hansen.
Escalante	Piute	6,180	7	66.8	0	92	22	40	10	47	0.90	+0.08	0.20	0.0	13	3	13	15	nw.	John W. Henry.
Escalante	Grand	4,000	17	76.4	-1.1	102	22	50	1	48	0.77	+0.24	0.31	0.0	7					Henry Crouse.
Escalante	Iron	5,479	0	71.7	+1.0	94	24	46	6	41	2.30	+1.42	0.79	0.0	17	7	22	2	w.	Weather Bureau.
Escalante	Iron	5,970	15	66.9	-4.2	93	*13	47	*6	42	1.71	+0.87	0.61	0.0	10	6	23	2	sw.	James Connell.
Escalante	Washington	5,907	9	67.9	-1.3	90	*10	40	5	47	1.64	+0.94	0.90	0.						

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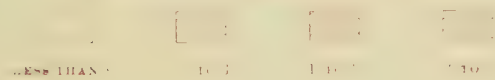
* Indicates 100; †1, 101, etc. ‡ 1:0.

* Indicates 100%, 50%, etc. † 1:10.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES



DAILY PRECIPITATION, JULY, 1906.

[illegible]

T indicates a trace of precipitation.

* Precipitation included in that of following day.

† Precipitation incomplete.

‡ Distribution not known.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

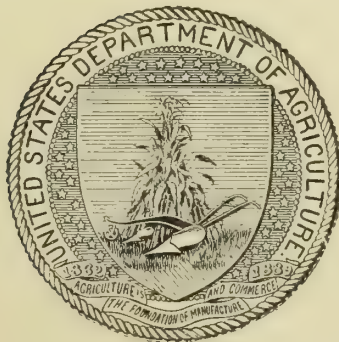
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

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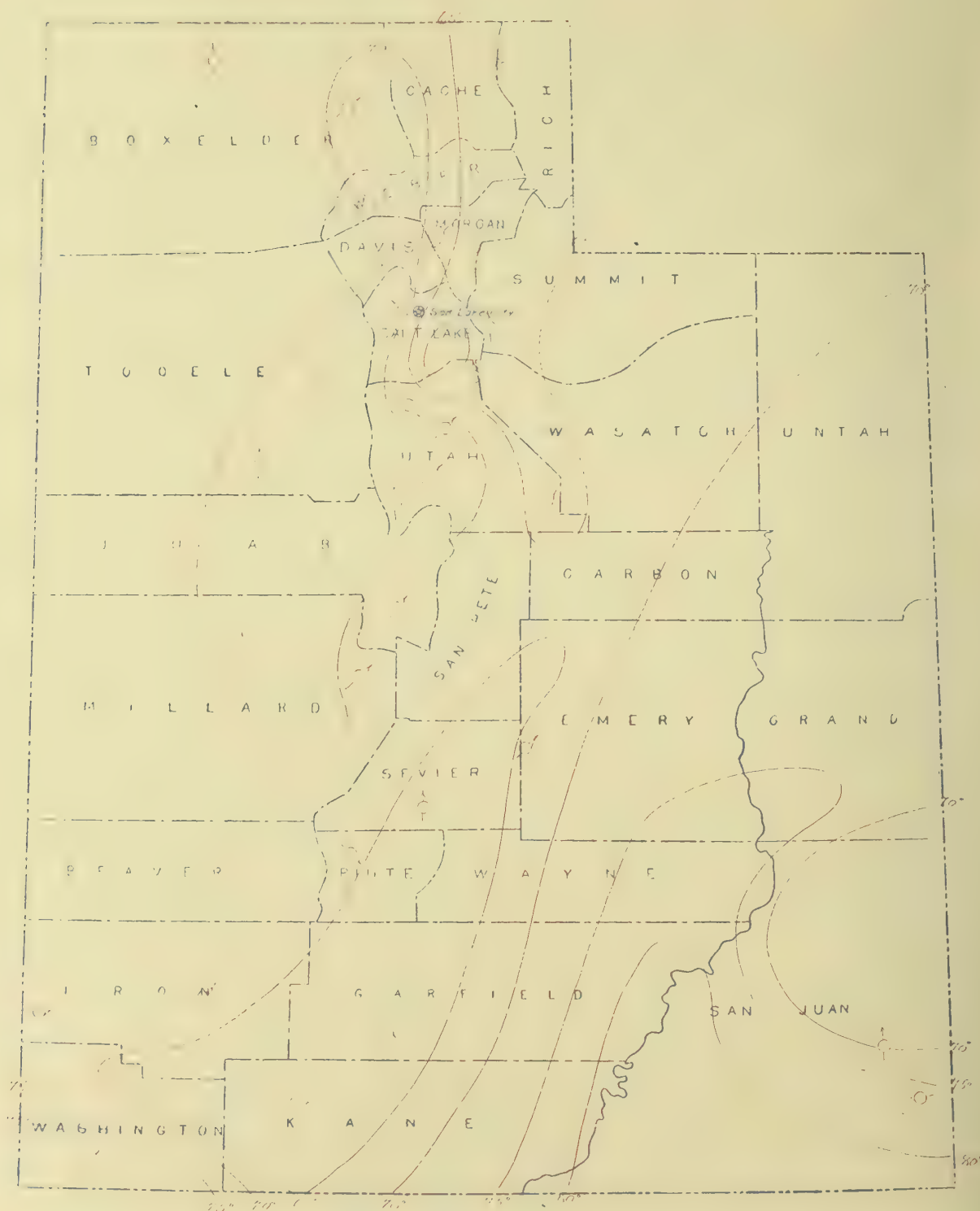
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
SEPTEMBER 24, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VIII. SALT LAKE CITY, UTAH, AUGUST, 1906. No. 10.

GENERAL SUMMARY.

Temperatures during the first few days of the month were slightly below normal, but rose considerably about the middle of the month. The warm days were followed by cool nights, and light frost in elevated districts. The clearing away of storm conditions and the approach of a high barometric area from the northwest caused lower temperatures and cool, pleasant weather during the closing days of the month.

Low barometric pressure caused general thunderstorms and rainfall slightly above normal the first few days of the month. The middle part of the month was characterized by heavy rains and damaging floods over the State in general. The precipitation was the greatest of record for the month of August in the Utah section. Considerable damage was caused by high winds at numerous places. The supply of irrigation water was replenished by the heavy rainfall throughout the State during the month.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 54 stations, was 68.9° , or 0.7° below the normal. The highest local monthly mean was 81.4° at Hite; the lowest was 61.2° at Ranch. The highest temperature recorded was 105° at Fillmore on the 10th, and 105° at Thistle on the 5th; the lowest was 29° at Coyoto on the 28th, giving an absolute range for the section of 76° . The greatest daily range for any station was 61° at Thistle on the 11th. The highest temperatures of the month were generally recorded on the 9th and 10th, and the lowest generally occurred on the 25th.

PRECIPITATION.

The average precipitation, determined from the reports of 72 stations, was 2.09 inches, or 1.25 inches above the normal. The excess decreased from north to south. The greatest monthly amount was 4.57 inches at Morgan, and the least was 0.30 inch at Indianola. The greatest precipitation in any 24 consecutive hours was 2.08 inches at Tropic on the 13th. There was an average of 7 days with 0.01 inch or more of precipitation; 7 over the northern portion, 6 over the middle portion, and 7 over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 3,313; at Modena, 7,231; at Grand Junction, Colo., 3,313; and

at Pocatello, Idaho, 5,474. The maximum velocity at Salt Lake City was 36 miles per hour from the east on the 3rd; at Modena, 37 miles from the southwest on the 18th; at Grand Junction, Colo., 24 miles from the west on the 13th; and at Pocatello, Idaho, 33 miles from the southeast on the 19th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 15; partly cloudy days, 10; cloudy days, 6. Determined from the records of automatic sunshine recorders, Salt Lake City had 66 per cent; Modena 75 per cent; Grand Junction, Colo., 59 per cent; and Pocatello, Idaho, 73 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 44 per cent, the lowest observed reading being 13 per cent on the 28th; at Modena, 54 per cent, the lowest observed reading being 12 per cent on the 4th; at Grand Junction, Colo., 42 per cent, the lowest observed reading being 13 per cent on the 24th; and at Pocatello, Idaho, 45 per cent, the lowest observed reading being 11 per cent on the 28th.

OBSERVERS' REMARKS.

Alpine.—The closing week of the month was cooler than the previous weeks. The wet weather did considerable damage in the fields.—T. B. Whitby.

Alta (near).—The light frosts of the 25th and the 26th caused no damage at this station.—Wm. W. Smith.

Castle Rock.—Electrical storms were very numerous during the month. The lightning accompanying the storms struck in many places, but no serious damage was caused thereby. The rains, however, did a great deal of damage.—David Moore.

Deseret.—Fine, warm weather prevailed during the month, though there were many high south winds. Water was plentiful.—S. W. Western.

Government Creek.—This was a wet month.—Walter James.

Heber.—The fore part of the month was very warm, and the latter part was cool, especially at night, when some light frost occurred.—John Crook.

Henefer.—More rain fell than usual. No damaging frosts occurred.—Wm. Brewer.

Huntsville.—The weather during the month was quite warm up to the 19th, when the heaviest storm known here for August began, and lasted four days.—Lars Petersen.

Kanab.—Some very helpful showers occurred during the month, and at the same time numerous floods occurred, which did considerable damage. The last three days of the month were very cloudy.—E. M. Ford.

Levan.—The weather during the month was not excessively hot; in fact, the latter part was comparatively cool, and quite cloudy.—Wm. Brown.

Marion.—High wind and heavy rain did much damage in this vicinity during the month.—James Woolstenhulme.

Meadowville.—The month was very stormy, and the heavy rainfall did much damage.—J. S. Moffat.

Mt. Nebo.—The weather during the month was generally

cool and pleasant, and the precipitation was above the average.—D. C. Walkey.

Parowan.—The rainy weather during the month did a great deal of damage.—James Connell.

Ranch.—The heavy rainfall was very injurious to the various interests.—J. W. Seaman.

Sunnyside.—The mountain streams in this locality did not dry up this year.—Henry Cullum.

Theodore.—Precipitation records for this section were broken during the month of August. Cool nights prevailed all summer.—Matthew M. Smith.

Trout Creek.—The mountain streams held out well during the month.—E. E. Edwards.

Vernal.—Irrigation water was plentiful on account of the frequent rains.—Joab Collier.

MISCELLANEOUS PHENOMENA.

Fog, light.—Manti, 20.

Aurora. Meadowville, 13.

Frost, killing. Marion, 26, 27.

Corona, lunar.—Marysvale, 28.

Rainbow.—Henefer, 19; Marion, 2, 13, 20, 21; Marysvale, 22; Theodore, 12.

Hail.—Henefer, 12; Marion, 13, 17; Meadowville, 2, 24; Nephi, 2; Randolph, 21, 23; Sunnyside, 5.

Frost, light.—Alta (near), 25, 26; Coyoto, 27, 28; Henefer, 15; Indianola, 25; Marion, 25–29; Marysvale, 25–28; Randolph, 27, 28; Richfield, 21, 22, 25.

Wind, high.—Aneth, 11, 19, 20; Deseret, 2, 5, 11, 13, 15, 16, 22, 23, 30; Enterprise, 1; Government Creek, 2, 11, 17, 21; Henefer, 6, 7, 10–12; Meadowville, 11, 16; Randolph, 12; Utah Lake, 30.

Thunderstorms.—Alpine, 2; Alta (near), 13, 14, 19–22, 30, 31; Aneth, 12, 20, 21; Blacksmith's Fork, 16, 17, 23; Castle Rock, 3, 11, 14, 17, 19, 20, 22, 31; Deseret, 24; Enterprise, 1, 11, 19, 20, 30; Farmington, 1, 2, 10, 12, 13, 17–23; Giles, 11, 13; Government Creek, 2, 10, 13, 16, 18–20, 30, 31; Heber, 12–14, 17, 21, 24, 30, 31; Henefer, 1, 2, 3, 10–13, 16, 17, 19, 20, 22, 24; Huntsville, 2, 18–23; La Sal, 16, 17; Levan, 17–20, 24, 30, 31; Marion, 2, 11–13, 16–19, 22, 24, 30, 31; Marysvale, 1, 2, 11–14, 16, 17, 19, 20, 30, 31; Meadowville, 2, 16, 17, 19, 23, 24, 30; Moab, 4, 10, 11, 13, 14, 16, 18, 22, 30; Morgan, 1–3, 12, 14–18, 20–22, 31; Mt. Nebo, 19; Nephi, 11, 13, 19, 22, 30; Nephi (near), 2, 11, 13, 17, 30; Ogden, 2, 20–22; Parowan, 1, 11, 12, 14, 18; Pinto, 7–10, 13; Provo, 1, 2, 9, 11, 21; Ranch, 17, 18, 20, 22; Randolph, 5, 9, 14; Richfield, 20, 21; Rockville, 18, 20; St. George, 10, 16, 17; Scipio, 11, 30; Snowville, 2, 17, 18; Sunnyside, 5; Theodore, 17, 20, 31; Tooele, 1, 2, 10, 12, 13, 18–22, 30; Tropic, 5, 9, 11–13, 16, 19–21, 31; Utah Lake, 1, 12, 13, 17, 19, 24, 30; Vernal, 1, 3, 4, 18.

CORRECTIONS FOR JUNE.

Page 45: Ogden No. 2—Mean temperature recorded 63.3°, should be 63.4; departure recorded —8.6°, should be —8.5.

LATE REPORTS FOR JULY.

Randolph: Total precipitation, 0.40 inch; greatest in any 24 consecutive hours, 0.15 inch; number of rainy days, 3; clear days, 21; partly cloudy days, 3; cloudy days, 7. The prevailing direction of the wind was southwest.

Verdure, San Juan County: Total precipitation, 2.29 inches; greatest in any 24 consecutive hours, 0.93 inch; number of rainy days, 8.

Black Rock (record for 28 days): Mean temperature, 72.8; maximum temperature, 100 on the 22nd; minimum tempera-

ture, 45° on the 10th; greatest daily range, 48°. (Precipitation record is incomplete.) Total precipitation, 0.37 inch; greatest any 24 consecutive hours, 0.15 inch; number of rainy days, number of clear days, 6; number of partly cloudy days, 13; number of cloudy days, 8. The prevailing direction of the wind was south.

WATER STAGES.

The level of Great Salt Lake on August 1st was 0.9 foot above zero; on August 15th, 0.6 foot above; and on September 1st, foot above.

MONTHLY AND ANNUAL PRECIPITATION FOR HUNTSVILLE, WEBER COUNTY, UTAH.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1895.....	3.85	0.97	2.07	T.	.....	0.54	0.80	0.17	0.92	T.	2.07	1.54
1896.....	2.45	0.70	3.40	2.78	2.86	.....	0.45	0.28	0.77	3.49	1.35	.....
1897.....	1.48	5.94	2.91	.....	.....	.....	0.77	0.17	1.38	1.53	2.80	.....
1898.....	1.33	0.67	1.98	0.99	3.28	0.80	0.48	0.91	0.26	1.72	3.44	1.10
1899.....	3.90	3.99	4.39	1.51	0.95	0.19	0.17	0.55	0.16	3.80	1.33	2.19
1900.....	1.08	1.85	0.72	2.67	1.16	0.61	0.04	0.32	1.50	2.88	5.07	0.48
1901.....	1.85	2.52	1.63	0.50	2.20	0.04	T.	1.09	0.82	1.84	0.62	1.78
1902.....	1.16	2.41	1.82	2.59	2.24	0.89	0.35	0.29	0.62	0.41	1.31	2.07
1903.....	7.72	0.61	2.01	1.33	2.03	0.21	0.22	0.16	1.88	2.13	2.30	1.23
1904.....	1.48	3.97	6.43	1.74	1.88	0.38	0.36	0.67	0.10	2.04	T.	2.12
1905.....	1.79	1.47	2.19	2.51	2.80	0.55	1.59	1.12	1.12	0.45	1.39	0.96
1906.....	3.38	1.82	3.31	2.17	3.56	1.47	0.09	.....	.....	.....	.....	.....
Mean.....	2.63	2.24	2.74	1.88	2.27	0.57	0.44	0.61	0.71	1.59	2.05	1.60

COMPARATIVE DATA FOR AUGUST.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	70.6	113	23	0.27
1893	68.1	112	25	0.23
1894	69.5	107	25	0.81
1895	70.6	110	29	0.35
1896	69.7	107	33	1.04
1897	69.4	111	35	0.40
1898	73.5	110	35	0.60
1899	65.7	102	24	0.96
1900	68.5	109	26	0.34
1901	72.3	111	31	1.63
1902	69.4	110	23	0.51
1903	71.8	110	27	0.38
1904	69.4	104	22	1.06
1905	71.4	110	26	0.74
1906	68.9	105	29	2.09

YEAR BOOK, U. S. DEPARTMENT OF AGRICULTURE.

Through the courtesy of United States Senator Smoot, and Local Office of the U. S. Weather Bureau at Salt Lake City, Utah has been enabled to furnish the cooperative observers and correspondents of the Utah Section with copies of the Year Book of the U. S. Department of Agriculture. The limited number of copies of the publication allotted to the Weather Bureau for distribution was insufficient to supply the demand.

SEASONAL PRECIPITATION.

"The total precipitation for the period from March 1st to September 3, 1906, (187 days), continues largely in excess of the average in California and over the Plateau and Rocky Mountain regions and the greater part of the Lake region and Atlantic coast districts, while a marked deficiency exists in the central valleys and over the greater part of the Gulf States."—*National Weather Bulletin for the week ending September 3, 1906.*

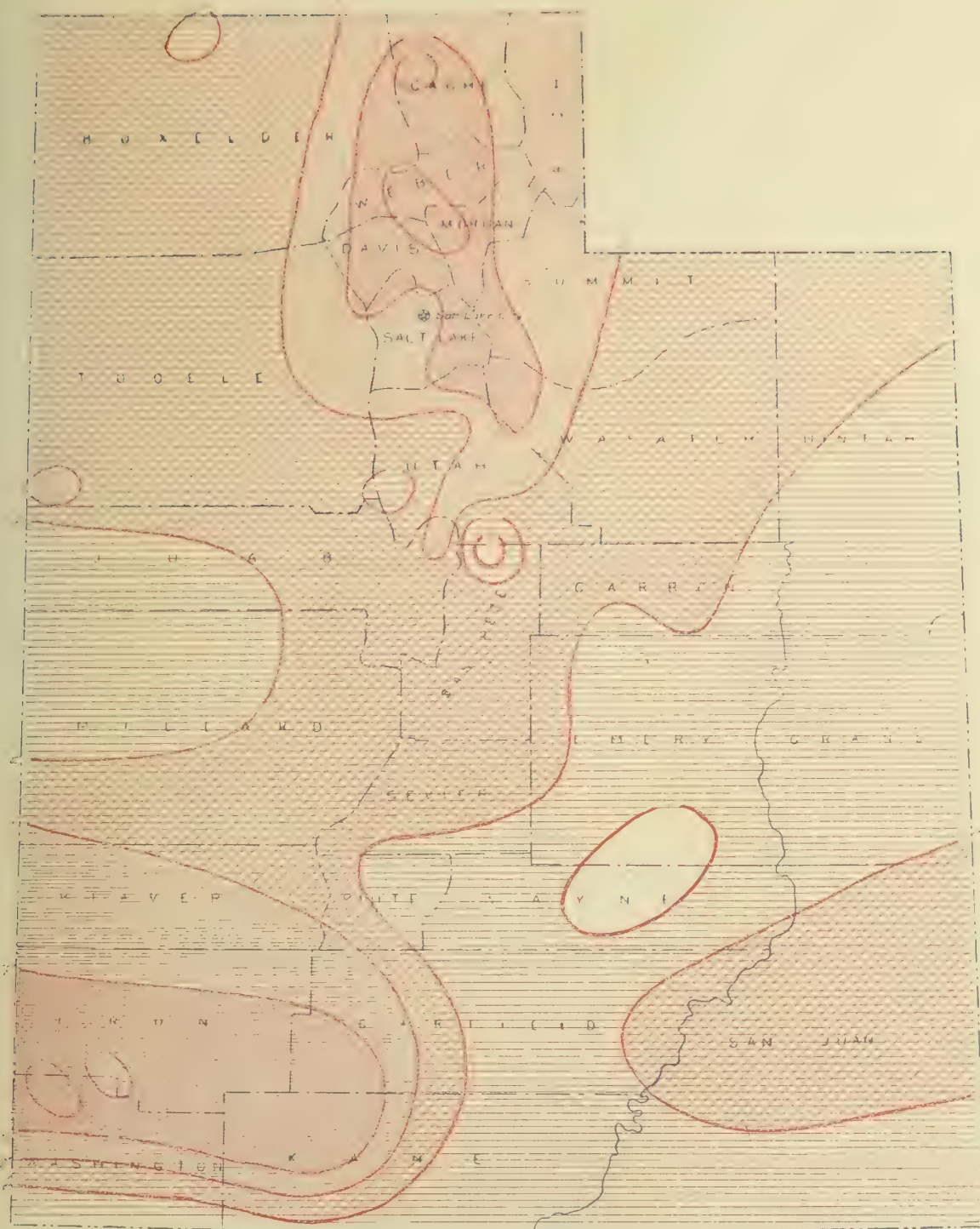
CLIMATOLOGICAL DATA, AUGUST, 1906.

Stations and stations.	Counties	Elevation, feet	Length of record, years.	Temperature, in degrees Fahrenheit							Precipitation, in inches				Sky.				Prevailing direction of wind	Observers
				Mean.	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Days with at least one inch of more	Number clear days	Number partly cloudy days	Number cloudy days		
NORTHERN.																				
Alpine	Utah	4,900	9																	T. B. Whitby.
Alpine	Boxelder	4,210	36	70.8	-3.7	100	*6	51	8	18	3.77	+2.80	1.39	0.0	6	23	1	1	sw.	Agent So. Pacific R. R.
Alpine	Davis	4,207	6	69.6	-2.1	91	10	48	27	30	3.88	+3.41	1.97	0.0	4	20	7	1	ne.	Charles Boylin.
Alpine	Utah	5,000	18	69.2	-0.5	95	10	44	*27	44	1.50	+0.80	0.92	0.0	4	20	10	1	...	Post Surgeon.
Alpine	Wasatch	5,600	13	61.8	-0.1	92	*11	30	20	50	3.11	+2.33	1.60	0.0	8	18	8	5	s.	John Crook.
Alpine	Summit	5,301	7	61.3	0	93	*9	35	*20	50	2.07	+1.20	0.40	0.0	12	10	10	8	w.	William Brewer.
Alpine	Weber	5,100	11	...	...	...	...	...	...	...	3.51	+2.93	1.18	0.0	4	19	9	3	...	Lars Petersen.
Alpine	Boxelder	4,230	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Agent So. Pacific Co.
Alpine	Cache	4,507	15	72.2	+1.3	95	8	55	20	27	4.55	+1.93	1.39	0.0	8	...	...	...	...	Agricultural College
Alpine	Boxelder	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Agent So. Pacific R. R.
Alpine	Rich	6,200	7	61.2	-0.7	80	11	38	25	12	2.80	+2.16	1.10	0.0	8	19	8	4	w.	J. S. Moffat.
Alpine	Cache	4,848	11	...	...	...	...	...	...	...	3.01	+2.97	1.27	0.0	6	...	...	...	...	Fred Yeates.
Alpine	Morgan	5,680	3	65.5	...	90	10	37	24	43	1.57	...	1.78	0.0	9	19	7	3	sw.	T. R. G. Welch.
Alpine	Weber	4,310	5	71.2	-1.8	93	10	50	25	31	4.11	+3.51	1.72	0.0	5	19	7	4	se.	Enoch Farr.
Alpine	Weber	4,310	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. H. Chevers.
Alpine	Summit	7,800	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	P. S. McKimmins.
Alpine	Bannock	4,183	6	69.4	-0.2	90	10	43	25	49	1.25	+0.83	0.29	0.0	9	17	3	1	se.	Weather Bureau.
Alpine	Rich	...	1	...	...	...	...	...	...	...	2.19	...	0.40	0.0	10	14	7	10	sw.	Wm. Rex.
Alpine	Salt Lake	...	2	71.6	...	91	16	51	*20	28	3.12	...	0.65	0.0	9	...	...	...	...	Francis W. Bailey.
Alpine	Salt Lake	4,306	32	73.9	-1.6	96	10	50	25	31	2.28	+1.50	0.72	0.0	10	16	11	1	se.	Section Center.
Alpine	Boxelder	4,300	10	65.3	-2.5	97	9	35	25	55	0.73	+0.50	0.40	0.0	4	12	10	3	s.	Joseph Robbins.
Alpine	Wasatch	...	...	68.4	...	92	*9	45	26	40	1.28	...	0.36	0.0	10	10	14	7	...	A. B. Larson.
Alpine	Wasatch	5,507	...	71.4	-2.2	93	12	49	25	31	2.85	+2.27	1.38	0.0	9	14	11	6	s.	M. M. Smith.
Alpine	Tooele	4,900	10	69.6	-0.5	91	*12	49	28	37	1.02	+0.48	0.50	0.0	8	25	1	5	...	I. J. Elkington.
Alpine	Utah	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Joab Collier.
Alpine	Rich	6,500	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Thomas Ashton.
Averages	...	...	...	68.7	-1.2	...	...	...	...	...	2.80	+2.13	...	0.0	7	17	9	5	s & sw	...
MIDDLE.																				
Black Rock	Millard	4,872	6	...	...	...	...	...	...	...	1.12	+0.27	...	0.0	3	...	...	...	...	Willard Burbank.
Black Rock	Emery	5,500	7	64.9	-2.7	92	9	36	31	48	0.89	+0.17	0.27	0.0	6	22	9	0	...	James Jeffs.
Black Rock	Millard	4,541	12	70.4	-0.9	90	12	38	*26	50	0.63	+0.14	0.37	0.0	4	22	4	5	s	S. W. Western.
Black Rock	Emery	6,260	6	69.2	+0.4	95	3	41	*20	40	1.28	+0.53	0.65	0.0	3	4	10	17	sw.	H. C. Wickman.
Black Rock	Millard	5,100	16	73.2	-1.5	105	10	46	24	45	1.20	+0.44	0.50	0.0	7	...	...	...	...	J. J. Starley.
Black Rock	Millard	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. M. Smith.
Black Rock	Tooele	5,277	6	71.2	-1.6	94	10	43	25	37	1.34	+0.10	0.55	0.0	7	20	7	4	s.	Walter James.
Black Rock	Mesa	4,608	15	74.5	-1.1	96	11	52	26	35	0.50	-0.59	0.30	0.0	7	15	12	4	nw.	Weather Bureau.
Black Rock	Emery	4,080	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Louis C. Farrer.
Black Rock	Tooele	...	3	66.4	...	92	*3	36	25	52	2.81	...	1.60	0.0	3	17	14	0	...	Owen Sheridan.
Black Rock	Sanpete	...	1	...	...	...	...	...	...	...	0.30	...	0.20	0.0	2	...	...	...	...	R. H. Spencer.
Black Rock	Sanpete	5,010	16	67.8	-2.5	90	10	43	26	35	1.31	+0.55	0.61	0.0	6	15	9	7	sw.	William Brown.
Black Rock	Sanpete	5,575	12	67.7	-2.5	91	10	42	*25	41	1.69	+1.25	0.63	0.0	8	1	17	1	...	W. M. Harmon.
Black Rock	Utah	4,650	4	74.2	+0.1	95	10	49	25	26	0.86	+0.61	0.28	0.0	7	13	15	2	s.	D. C. Walkey.
Black Rock	Sanpete	5,859	14	69.0	-2.6	94	9	43	*24	41	1.87	+1.27	0.72	0.0	6	12	19	0	...	Web Greene.
Black Rock	Sanpete	...	2	...	...	...	...	...	...	...	2.31	...	0.65	0.0	10	17	9	5	...	A. Madsen.
Black Rock	Sanpete	...	1	71.8	...	99	10	44	27	43	1.56	...	1.10	0.0	5	20	8	3	...	J. Finlison.
Black Rock	Utah	4,637	14	...	...	...	...	...	...	...	2.10	...	0.46	0.0	9	10	9	12	sw.	D. L. Coombs.
Black Rock	Utah	4,532	1	74.4	+3.7	103	10	44	25	52	1.80	+1.51	0.70	0.0	7	16	10	5	sw.	W. K. Henry.
Black Rock	Sevier	5,350	16	66.4	-1.0	92	*4	36	28	50	1.01	+0.42	0.43	0.0	12	13	11	7	...	Anton Nielsen.
Black Rock	Millard	5,260	11	66.5	-2.7	93	10	37	*26	48	1.64	+0.79	0.46	0.0	10	16	0	15	sw.	Thomas Memmott.
Black Rock	Utah	7,474	14	63.5	+3.3	100	6	33	23	54	1.20	+0.55	0.40	0.0	4	8	7	16	sw.	Agent Rio Grande R. R.
Black Rock	Utah	5,975	14	73.4	+4.0	105	5	42	3	61	2.77	+1.53	0.92	0.0	4	18	9	4	...	Ag. Rio Grande W. R. R.
Black Rock	Utah	...	1	68.8	...	96	16	39	25	46	1.60	...	0.90	0.0	3	12	15	4	...	E. E. Edwards.
Black Rock	Utah	...	1	66.8	...	93	9	41	25	42	2.14	...	1.16	0.0	7	12	8	11	se.	W. A. Knight.
Black Rock	Carbon	5,540	7	69.0	+0.1	95	13	39	28	41	0.67	-0.32	0.25	0.0	...	...	...	...	...	E. E. Branch.
Averages	...	...	...	69.2	-0.3	...	...	...	...	...	1.44	+0.88	...	0.0	6	15	9	7	sw.	...
SOUTHERN.																				
Alto	San Juan	4,800	6	76.2	-1.1	99	8	51	23	39	0.54	-0.02	0.50	0.0	3	18	10	1	e.	Miss S. Hubert.
Alto	Beaver	...	1	66.2	...	88	15	40	25	42	2.04	...	0.48	0.0	9	...	...	...	...	A. B. Anderson.
Alto	Iron	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Prof. R. V. Smith.
Alto	Garfield	...	5	61.8	+0.6	90	10	29	28	55	1.48	+0.64	0.23	0.0	11	14	6	8	...	H. J. McCullough.
Alto	Garfield	5,700	6	68.2	...	89	11	43	24	38	10.45	...	0.13	0.0	7	...	...	...	...	Geo. H. Barney.
Alto	Washington	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Joseph T. Atkin.
Alto	Beaver	7,318	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Prof. Albert Warren.
Alto	Wayne	4,900	11	74.4	-0.2	99	9	41	25	47	0.43	-0.29	0.11	0.0	5	18	7	6	...	J. C. White.
Alto	San Juan	...	1	70.0	...	92	9	46	24	28	1.23	...	0.56	0.0	4	21	5	5	s.	Joseph D. Lyman.
Alto	Garfield	3,000	7	81.4	-0.9	104	*9	59	*27	38	1.28	+0.85	0.60	0.0	4	15	16	0	...	F. W. Gibbons.
Alto	Kane	4,925	6	64.9	...	90	*8	40	*23	43	2.00	+1.04	0.70	0.0	7	8	7	13	...	E. M. Ford.
Alto	San Juan	7,000	6	65.6	-2.0	85	9	42	20	32	1.38	+0.20	0.45	0.0	8	10	17	4	...	Mrs. G. W. Carpenter.
Alto	Wayne	7,000	14	62.8	-0.6	90	*8	32	26	48	0.56	-0.68	0.20	0.0	4	...	...	...	...	Michael Hansen.
Alto	Piute	6,180	7	64.6	-2.0	89	9	37	*21	47	0.91	-0.59	0.22	0.0	12	18	7	6	nw.	John W. Henry.
Alto	Grand	4,300	17	75.4	+0.2	98	6	40	*26	40	0.58	-0.04	0.28	0.0	7	19	10	2	...	Henry Crouse.
Alto	Iron	5,479	9	68.4	-1.8	92	15	44	24	38	3.40	+1.52	0.82	0.0	12	12	13	6	w.	Weather Bureau.

VERMILION.

* Indicates 100% * 101, etc. † 110, 111, etc.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES — IN INCHES

DAILY PRECIPITATION, AUGUST, 1906.

Sections and stations	Day of month.																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine	.80	.22											.36				1.49		.45												.45		
Alta near	.16												.40	.10	.10		T.		.20	1.10	.50	.60									T.	.20	
Blacksmith's Fork	.08						.06									.04	.03	T.	.31	1.00	.51	.84	.20									T.	
Castle Rock			.10									T.	.12	T.			.15		.40	.77	.10	.70	T.									.15	
Corinne																		T.	1.97	1.40	.33	.15											
Evanston, Wyo			.37										T.		T.		.13		.33	1.02	.03	.51										.12	
Farmington	T.	T.															T.	T.	.40	.80	1.20	.80	T.										
Ft. Duchesne	.25		T.										T.						T.	.10	.90										T.	.25	
Grandville near		.12											.15							2.15													
Heber	.30	.15										T.	.70					1.00	.20	.35	.31										T.	.10	
Hendler	.06	.03	.17									.24	.03			.14	.10	T.	.30	.40	.32	.24	.04										
Huntville		T.																.58	1.18	1.08	.70	T.											
Kelton																																	
Logan			.03										.09						1.39	.95	1.33	.66	.09	.01									
Lucin																																	
Marion	.23	T.	.18								T.	T.	.06	.05		T.	.70	.03	.40	1.41	.22	.45		.04								.10	
Meadowville		.15	.10									T.				.10	.05			1.10	.30	.85	T.	.15									
Millville													T.						.23	1.24	1.27	.66	.08	.16								T.	
Morgan	.12	.10	.23												T.			.03	.27	.50	1.78	.65	.91										
Ogden No. 1																		.05		.13	1.72	1.12	1.09										
Ogden No. 2																																	
Park City																																	
Pocatello, Idaho		.12	.29								.04	.11	T.				T.	.18	.01		.20	.25	.05	T.							T.	T.	
Randolph									T.					T.		.35	.15	.40	.30	.35	.10	.02	.15	T.	.35	.02					T.	T.	
Saltair Beach	.53	.63	.03			T.							T.	.05				.25	.26	.58	.14	.65										T.	
Salt Lake City	.10	.01	.06							T.	T.	.02	.18			T.	T.	.20	.37	.63	.43	.28	T.	T.							T.	T.	
Snowville																		.13	.03		.40	.17											
Strawberry Valley																																	
Theodore	.16		.04		T.							.11	.26	.06			.01		.03	.20	.36											.05	
Tooele		.25										T.	.16			.05		.08	.32	1.38	.07	.49										.05	
Vernal near	T.		.10	.03									T.	.01			.12	T.	.19	.06	.50										T.	.01	
Woodruff																																	
MIDDLE.																																	
Annabell near												.52			.24	T.		T.	.24	.08	.02	T.								T.		.02	.03
Black Rock												T.	.12	.10					T.		.20										.10	.10	.27
Castle Dale																																	
Clear Creek																			.20	.37		.02		.04									T.
Deseret																																	
Emery		.65	.33									T.	.30						T.														
Fillmore													.01						.50	.27	.08	.05		.05							.24		
Garrison																																	
Government Creek		T.	.03										.03	.04				.08	.55	.44	T.	.17	T.								T.	T.	
Grand Junction, Colo	.09												T.		.04	.02			.02	.06	.30	T.									T.	.03	
Green River																																	
Hatch												.70								1.60												.50	
Indianola																				.20				.10									
Levan												T.	.09				T.	T.	.61	.11	.19		.03							.28			
Levan		T.	.11																.20	.06	.10	.40	.12									.03	
Manti																																	
Mount Nebo	T.	T.	.07									T.		T.	.02		T.		.28	.27	.05	T.		.07								.10	
Mount Pleasant													.42					.31	.14	.72	.11											.17	
Nephi		.31										.65		.01			.11		.06	.58	.30	.15									.08	.03	
Nephi near		.07												.24		.02				.85		.25	.25									.10	
Oak City																				.13	.25	.06	.02										
Payson	.10		.07										.45			.11	T.	.46	.41	.11	.28		T.								.11	T.	
Provo	.30	T.	.10										T.	.10				T.	.15	.70	.10	.35	T.	T.								T.	
Richfield		.08										.04	.05	.02	.11		.02	.03	.02	.12	.43										.05	.07	
Scipio		.08	.05									.04		.13			T.	T.	.10	.09	.40	.36			.04						.29	T.	
Soldier Summit																			.20	.30	.40											.30	
Sunny-side	T.			.05								.04		.25				.18			.30											.27	
Thistle													.90							.92	.10											.85	
Trout Creek																			.05	.90	.05												
Utah Lake Pumping Station		.20											.20			T.	.23	T.		1.16	.15											.20	
Wellington		.22																		.20		.25											
SOUTHERN.																																	
Albion	.03				.01							T.							T.	T.	.50												
Beaver												.64			.16				.16	.41	.39	.06								.30	.04	.48	
Cedar City																																	
Coyote	.23							T.				.																					

651.007
UN-
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

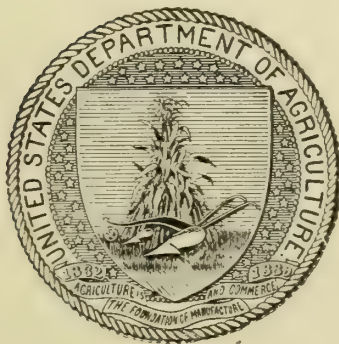
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

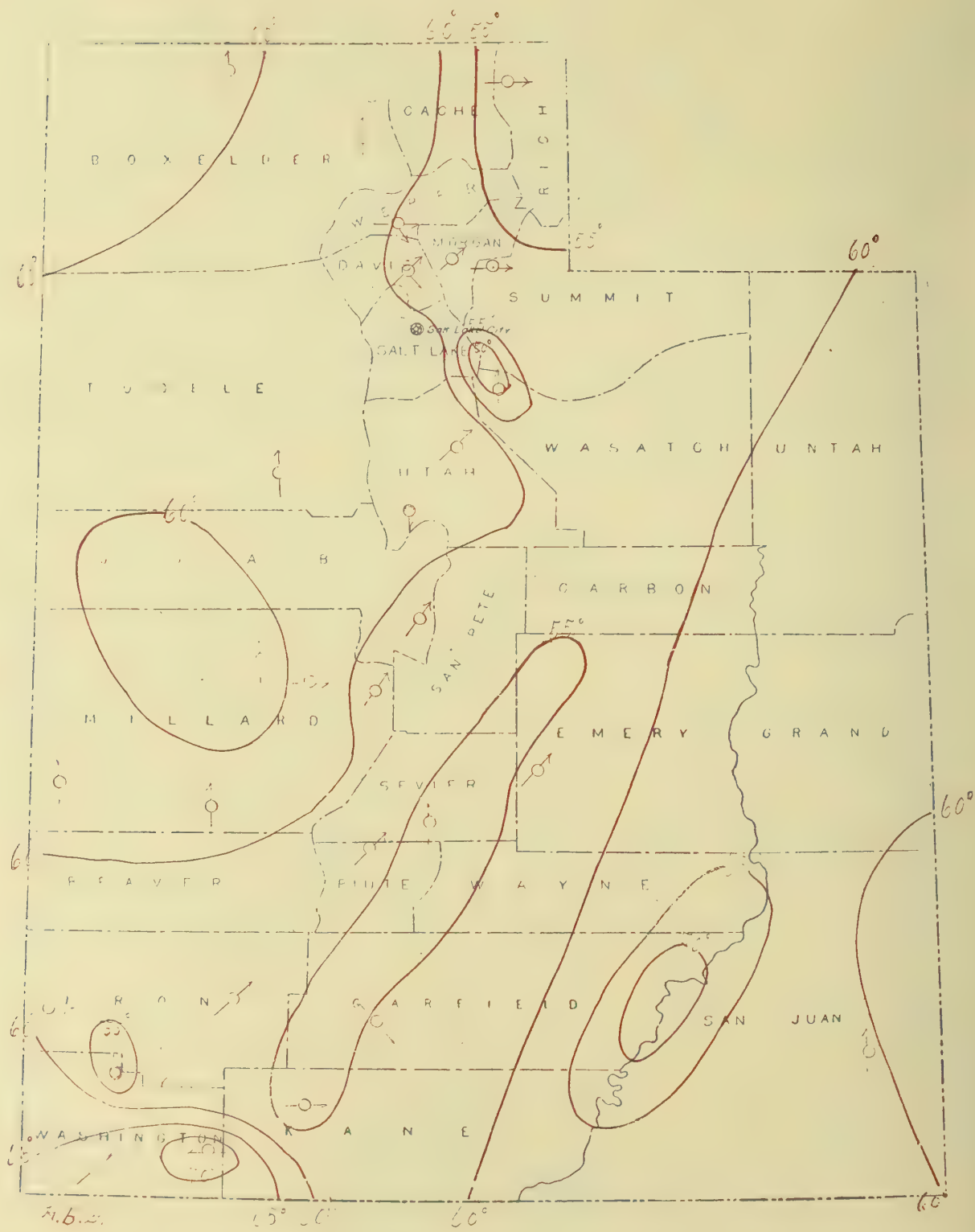
SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.

OCTOBER 21, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VIII. SALT LAKE CITY, UTAH, SEPTEMBER, 1906. No. 11.

GENERAL SUMMARY.

High barometric pressure prevailed over this region much of the month, and caused a notable deficiency in the average temperature and cloudiness, though the temperature was relatively higher over the middle districts. The highest temperature records of the month were made almost simultaneously over the section about the 6th, during the eastward passage of a low pressure area that was accompanied by very little cloudiness. The lowest temperatures of the month occurred, with unimportant exceptions, about the 17th, under the domination of an immense high air pressure area. The sky being generally clear at that time, the temperature dropped abruptly to well below freezing at a number of stations, being more or less destructive in effect.

Two low pressure areas broke the prevalence of high pressure, marking the principal stormy periods of the month: about the 1st and the 15th. The precipitation caused by these storms was heavy, being sufficient to enlarge the monthly amounts considerably above the normal generally over the State, only a few stations reporting a deficiency. Owing to the low temperature during the storm at the middle of the month, the mountains throughout the State received a good covering of snow, which reached well down into the valleys in scattered sections.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 55 stations, was 59.6° , or 0.7° below the normal. The highest local monthly mean was 73.0° at Rockville; the lowest was 49.7° at Alta (near). The highest temperature recorded was 9° at Hite on the 6th; the lowest was 20° at Alta (near) on the 17th, giving an absolute range for the section of 79° . The greatest daily range for any station was 57° at Thistle on the 13th, 14th and 24th. The highest temperatures of the month were generally recorded on the 6th, and the lowest generally occurred on the 17th.

PRECIPITATION.

The average precipitation, determined from the reports of 69 stations, was 1.33 inches, or 0.54 inch above the normal. The excess increased from north to south. The greatest monthly amount was 3.49 inches at Parowan, and the least was 0.27 inch at Snowville. The greatest precipitation in any 24 consecutive hours was 4.46 inches at Parowan on the 14-15th. There was an average

of 4 days with 0.01 inch or more of precipitation; 4 over the northern and middle portions, and 5 over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 3,877; at Modena, 6,489; at Grand Junction, Colo., 3,086; and at Pocatello, Idaho, 6,265. The maximum velocity at Salt Lake City was 22 miles per hour from the northeast on the 15th; at Modena, 48 miles from the north on the 1st; at Grand Junction, Colo., 28 miles from the southwest on the 24th; and at Pocatello, Idaho, 26 miles from the northwest on the 15th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 19; partly cloudy days, 6; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 69 per cent; Modena 88 per cent; Grand Junction, Colo., 70 per cent; and Pocatello, Idaho, 85 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 48 per cent, the lowest observed reading being 20 per cent on the 11th; at Modena, 50 per cent, the lowest observed reading being 12 per cent on the 12th; at Grand Junction, Colo., 53 per cent, the lowest observed reading being 14 per cent on the 13th; and at Pocatello, Idaho, 42 per cent, the lowest observed reading being 14 per cent on the 11th.

OBSERVERS' REMARKS.

Black Rock.—Two heavy rains occurred, on the 1st and 15th, respectively. The first was accompanied by heavy thunder and lightning, but the second was a slow, steady rain. The first frost, occurring on the morning of the 17th, did slight damage.—Willard Burbank.

Deseret.—September was cooler than usual. Several frosts occurred, doing slight damage.—S. W. Western.

Emery.—The past month has been a very favorable one in every respect.—H. C. Wickman.

Escalante.—September was warm, with an unusual amount of cloudy, stormy weather. No killing frosts occurred, though some damage was caused by several frosts.—Geo. H. Barney.

Garrison.—The mountain tops nearby were covered with snow a portion of the month.—E. M. Smith.

Heber.—The middle part of the month was quite cool, but the latter part was warm and pleasant, with cool nights.—John Crook.

Henefer.—Heavy dews were frequent during the fore part of the month.—Wm. Brewer.

Huntsville.—With the exception of four stormy days, the weather during September was very pleasant. The latter part of the month was quite warm.—Lars Petersen.

Levan.—No frost occurred, and fine weather prevailed during the entire month.—Wm. Brown.

Marion.—One-half inch of ice formed on standing water the morning of the 12th. On the 14th, snow covered the foothills, and lay 12 inches deep on the mountains.—J. Woolstenhulme.

Marysville (near).—Cloudy weather prevailed during the month. The amount of snow in the mountains was above normal, and irrigation water was plentiful. John W. Henry.

Meadowville.—The past month was characterized by pleasant days and cool nights. The heavy frost on the morning of the 12th did much damage.—J. S. Moffat.

Mt. Nebo.—Cool weather prevailed throughout the month, with precipitation above normal.—D. C. Walkey.

Sunnyside.—On the 14th, about 1 foot of snow lay on the mountains. The first frost of the season occurred on the morning of the 17th.—Henry Cullum.

Theodore.—The month of September gave us delightful weather. The precipitation was above normal.—M. M. Smith.

Tropic.—Favorable weather prevailed thruout the month of September.—E. P. Bolton.

MISCELLANEOUS PHENOMENA.

Rainbow.—Marion, 7.

Parhelium.—Snowville, 1.

Halo, solar.—Randolph, 6.

Corona, lunar.—Government Creek, 23.

Fog, light.—Marion, 1; Marysville (near), 17.

Hail.—Levan, 1; Marion, 14; Moab, 16; Plateau, 1.

Sleet.—Alta, 14-16; Parowan, 15; Salt Lake City, 15.

Frost, light.—Black Rock, 17; Coyoto, 12; Emery, 11; Government Creek, 12, 17; Marion, 18, 19; Morgan, 17, 18; Mt. Nebo, 12, 17; Mt. Pleasant, 11, 12; Ranch, 14; Randolph, 13, 17; Theodore, 2, 13, 17; Utah Lake Pumping Station, 15; Vernal (near), 12.

High winds.—Black Rock, 9, 12, 13, 23; Castle Rock, 11; Deseret, 1, 5; Enterprise (near), 13, 23; Garrison, 1, 4, 5, 12-15, 21, 23; Government Creek, 23; Grayson, 13; Henefer, 11, 27; La Sal, 13; Marion, 23, 24; Modena, 1; Nephi, 1, 13; Sunnyside, 1; Tropic, 15, 23.

Frost, killing.—Alta (near), 12, 17; Castle Rock, 12; Coyoto, 17; Deseret, 12, 17; Enterprise (near), 16; Henefer, 12; Huntsville, 12; Marion, 12; Marysville (near), 17-19; Meadowville, 12, 17; Morgan, 12; Mt. Pleasant, 16; Payson, 17; Randolph, 20-22; Snowville, 17.

Thunderstorms.—Alta (near) 1, 13, 14; Black Rock, 1; Castle Rock 10; Cedar City, 23, 30; Coyoto, 24; Farmington, 13-15; Government Creek, 13, 30; Henefer, 1, 13, 30; Huntsville, 1; Levan, 1, 24, 30; Marion, 1, 14, 30; Marysville (near), 6, 7, 13, 24, 26; Meadowville, 1, 7, 16, 30; Moab, 1, 2, 8, 14-16, 24, 26, 29; Modena, 1, 24, 29, 30; Morgan, 14; Nephi, 1, 30; Nephi (near), 1; Parowan, 1, 24; Plateau, 1, 24, 26, 30; Provo, 14; Ranch, 24; Salt Lake City, 1, 13, 15; Scipio, 1; Sunnyside, 2, 14; Theodore, 1, 10, 30; Tooele, 13; Tropic, 1, 24; Utah Lake Pumping Station, 1, 13, 14.

CORRECTIONS FOR JULY.

Page 53: Hite—Mean temperature and departure recorded 83.3, -1.2, should be 83.4, -1.1. Ibapah—Mean temperature recorded 66.9, should be 67.8. La Sal—Mean temperature and departure recorded 65.2, -2.7, should be 65.3, -2.6. Ogden No. 1—Mean temperature and departure recorded 74.4, +0.8, should be 75.4, +1.8. Ogden No. 2—Mean temperature and departure recorded 75.3, -3.9, should be 75.4, -3.8. Parowan—Mean temperature and departure recorded 66.9, -4.2, should be 71.6, +0.5.

Page 54: Hite—Mean maximum temperature recorded 98.9, should be 99.0. Ibapah—Mean minimum temperature recorded 45.8, should be 47.7. La Sal—Mean minimum temperature re-

corded 50.2, should be 50.3. Marysville—Mean minimum temperature recorded 47.7, should be 47.6. Ogden No. 1—Mean minimum temperature recorded 59.9, should be 61.9. Parowan—Mean maximum and minimum temperatures recorded 88.0, and 45.8, should be 88.5, 54.7, respectively.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	60.7	104	28	1.89
1892	64.6	102	20	0.09
1893	58.0	99	12	0.84
1894	57.0	102	13	1.36
1895	60.8	103	9	0.60
1896	61.0	110	16	1.00
1897	62.2	100	25	1.64
1898	61.0	102	18	0.10
1899	65.3	103	22	0.05
1900	57.4	96	10	1.26
1901	59.3	100	11	0.21
1902	60.1	103	10	0.56
1903	58.5	103	16	0.90
1904	61.1	102	20	0.40
1905	60.7	104	12	2.10
1906	59.6	99	20	1.33

WATER STAGES.

The level of Great Salt Lake on September 1 was 0.6 foot above zero; on September 15th it was 0.5 foot above, and on October 1 it was 0.4 foot above zero.

MONTHLY AND ANNUAL TEMPERATURE AND PRECIPITATION FOR TROPIC, GARFIELD COUNTY, UTAH.

TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1897	28.2	29.4	45.0	59.8	60.8	69.2	67.3	57.5	48.8	34.8	26.7	20.0
1898	29.6	46.2	50.6	63.0	66.6	58.8	60.0	42.2	36.9	28.0	45.0	45.0
1899	26.4	32.0	36.2	45.4	47.9	61.8	66.6	58.8	60.0	42.2	36.9	28.0
1900	32.0	31.5	40.4	39.9	53.2	61.5	69.4	60.1	49.5	43.6	35.9	30.2
1901	23.7	27.2	32.1	39.3	53.1	58.5	67.5	63.3	52.3	46.4	35.3	28.0
1902	28.2	28.4	40.0	44.4	51.0	62.7	62.2	60.4	54.0	39.9	28.0	20.8
1903	23.2	13.8	40.0	44.4	51.0	62.7	62.2	60.4	54.0	39.9	28.0	20.8
1904	29.1	31.0	37.3	45.0	55.0	61.6	66.6	66.6	60.2	50.4	41.6	31.9
1905	27.8	31.4	41.0	46.6	49.4	59.4	66.4	68.0	61.0	49.8	37.2	25.0
1906	28.4	37.2	38.4	45.0	52.1	60.3	68.6	63.2	58.6	46.7	36.4	27.6
Mean	27.4	29.0	36.0	44.0	52.2	61.6	67.2	63.9	57.0	46.7	36.4	27.6

PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1897	1.30	0.20	0.92	0.26	0.58	0.52	3.77	1.50	0.38	0.18	0.18	0.18
1898	0.40	0.88	1.21	0.81	0.58	0.52	3.77	1.50	0.38	0.18	0.18	0.18
1899	1.40	0.10	0.34	0.11	0.69	1.50	0.46	0.46	0.46	0.46	0.46	0.46
1900	0.06	0.22	4.83	0.12	0.27	0.15	0.76	3.40	0.88	0.98	0.11	0.11
1901	1.20	4.80	0.30	0.73	1.20	1.72	0.46	0.46	0.46	0.46	0.46	0.46
1902	0.30	0.49	0.86	0.86	0.57	1.31	0.22	0.22	1.93	0.46	0.46	0.46
1903	0.05	0.32	0.74	0.53	0.87	0.59	0.20	1.98	0.46	0.46	0.46	0.46
1904	0.90	2.71	1.25	0.70	1.11	0.83	0.10	0.10	4.97	0.40	0.10	0.10
1905	0.67	0.70	4.87	1.95	0.86	0.86	2.99	3.64	1.31	0.40	0.40	0.40
1906	0.57	1.12	0.60	1.10	0.77	0.37	1.01	1.27	1.19	0.50	1.03	0.16
Mean	0.57	1.12	0.60	1.10	0.77	0.37	1.01	1.27	1.19	0.50	1.03	0.16

SEASONAL PRECIPITATION.

"The season from March 1 to October 1, 1906, (215 days), closed with a decided shortage in precipitation in the central valleys and west Gulf States, and over a large part of the Lake region at south Atlantic coast districts. A marked deficiency also exists in the north Pacific coast. In California and generally thruout the Plateau and Rocky Mountain regions the seasonal precipitation was much above the normal. An excess is also shown over the interior portions of the south Atlantic and east Gulf districts, and on the middle Atlantic coast." *National Weekly Weather Bulletin for the week ending October 1, 1906.*

CLIMATOLOGICAL DATA, SEPTEMBER, 1906.

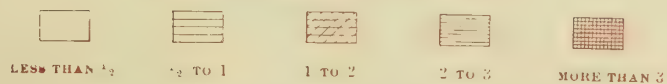
Sections and stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total (snow fall included).	Days with at least one inch of rain.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Albany	Utah	4,900	10	49.7	...	75	6	20	17	39	1.93	...	1.01	T.	7	17	7	6	...	W. W. Smith.
Albany	Boxelder	4,240	30	61.8	3.6	90	8	37	11	47	0.67	+0.02	0.52	0.0	2	21	3	3	S.	T. B. Whitby.
Albany	Davis	4,267	6	59.6	-0.3	85	6	37	18	38	1.49	+0.54	0.55	0.0	5	21	3	1	nw.	Agent So. Pacific R. R.
Albany	Uinta	5,000	18	60.7	-0.1	86	7	36	13	18	0.95	-0.25	0.50	0.0	5	20	8	2	...	Charles Boylin.
Albany	Wasatch	5,666	13	54.2	-1.1	83	*23	28	15	81	0.33	...	0.10	0.0	1	11	1	3	S.	Post Surgeon.
Albany	Summit	5,304	7	57.1	+3.3	86	46	21	12	80	0.56	-0.11	0.28	0.0	4	21	1	1	S.	John Cook.
Albany	Weber	5,100	11	...	...	...	...	...	...	...	1.69	+0.98	0.92	0.0	4	23	2	5	W.	William Brewer.
Albany	Boxelder	4,230	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W.	Lars Petersen.
Albany	Cache	4,567	15	64.6	+3.3	84	7	42	11	28	1.62	+0.54	0.82	0.0	2	...	...	...	...	Agent So. Pacific Co.
Albany	Boxelder	4,230	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Agricultural College
Albany	Rich	6,200	7	53.8	-0.2	78	8	30	12	43	0.90	+0.07	0.40	0.0	4	23	2	5	W.	Agent So. Pacific R. R.
Albany	Cache	4,848	11	...	...	...	...	...	...	...	1.08	+0.18	0.66	0.0	2	...	...	...	...	J. S. Moffat.
Albany	Morgan	5,680	3	56.4	...	83	8	30	12	45	0.91	...	0.54	0.0	3	19	10	1	sw.	Fred Yeates.
Albany	Weber	4,310	5	61.4	-0.8	80	*5	40	*15	28	1.30	+0.61	1.00	0.0	3	23	2	1	sw.	T. R. G. Welch.
Albany	Weber	4,310	30	58.7	-6.8	89	4	40	*18	...	1.31	+0.66	0.96	0.0	2	23	1	6	W.	Enoch Farr.
Albany	Summit	7,800	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. H. Chevers.
Albany	Bannock	4,483	6	62.0	+1.5	88	6	34	11	39	0.48	-0.18	0.30	0.0	3	21	8	1	se.	P. S. McKimmins.
Albany	Rich	4,483	2	...	...	...	...	...	...	...	2.17	...	1.75	0.0	6	18	6	6	sw.	Weather Bureau.
Albany	Salt Lake	3	62.4	...	...	81	*5	41	*12	33	1.20	...	0.65	0.0	2	...	...	...	...	Wm. Rex.
Albany	Salt Lake	4,306	32	63.8	-0.5	88	6	43	17	32	1.40	+0.56	0.77	0.0	4	18	6	6	se.	Francis W. Bailey.
Albany	Boxelder	4,300	10	56.6	-1.8	80	8	25	17	52	0.27	-0.28	0.15	0.0	2	20	9	1	S.	Section Center.
Albany	Wasatch	53.0	...	...	...	81	21	30	17	41	...	...	...	...	...	...	...	...	...	Joseph Robbins.
Albany	Wasatch	5,507	...	59.4	...	85	*6	30	17	40	1.51	...	0.70	0.0	5	8	17	5	...	A. B. Larson.
Albany	Tooele	4,900	10	62.4	-1.6	85	30	40	*15	27	1.26	+0.65	0.85	0.0	5	23	3	4	...	M. M. Smith.
Albany	Utah	11	60.8	+0.7	83	6	39	*17	34	1.00	...	-0.25	0.68	0.0	7	23	4	3	...	L. J. Elkington.
Albany	Rich	6,500	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Joab Collier.
Averages				58.7	-1.3	...	...	...	...	...	1.16	+0.28	...	T.	4	20	6	4	W.	Thomas Ashton.
MIDDLE.																				
Albany	Millard	4,872	6	60.8	+2.7	91	6	32	17	49	2.33	+1.41	1.27	0.0	7	21	4	5	S.	Willard Burbank.
Albany	Emery	5,500	7	54.8	-3.7	80	8	26	17	49	0.60	-0.22	0.35	0.0	4	10	10	1	...	James Joffe.
Albany	Millard	4,541	12	59.8	-0.4	86	*7	30	17	51	0.95	+0.29	0.53	0.0	4	19	3	6	S.	S. W. Western.
Albany	Emery	6,260	6	57.1	+2.9	85	5	28	26	44	1.40	+0.51	0.90	0.0	2	8	11	11	sw.	H. C. Wickman.
Albany	Millard	5,100	16	64.2	+1.7	90	*1	30	12	47	2.38	+1.42	1.25	0.0	7	...	...	...	...	J. J. Starley.
Albany	Millard	3	61.2	...	...	89	*2	30	16	40	0.50	...	0.50	0.0	1	17	6	6	S.	E. M. Smith.
Albany	Tooele	5,277	6	61.0	-0.4	86	*0	32	17	48	0.97	+0.34	0.55	0.0	4	22	2	4	...	Walter James.
Albany	Mesa	4,608	15	64.9	-2.3	91	6	43	18	34	1.43	+0.50	0.98	0.0	7	19	5	6	nw.	Weather Bureau.
Albany	Emery	4,080	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Louis C. Farrer.
Albany	Tooele	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Owen Sheridan.
Albany	Sanpete	...	...	...	...	...	...	...	...	...	0.40	...	0.40	0.0	1	...	...	...	...	R. H. Spencer.
Albany	Juab	5,010	16	58.7	-1.7	83	6	31	17	37	1.74	+0.50	1.14	0.0	6	22	1	7	sw.	William Brown.
Albany	Sanpete	5,575	12	57.6	-3.5	84	6	33	17	41	1.52	+0.51	0.42	0.0	7	0	17	4	...	W. M. Harmon.
Albany	Utah	4,650	5	63.8	+1.0	88	6	39	17	37	1.18	+0.05	0.42	0.0	5	19	6	5	n.	W. M. Harmon.
Albany	Sanpete	5,859	14	59.6	-2.1	85	6	31	10	35	1.24	+0.34	0.65	0.0	3	23	2	5	...	D. C. Walkey.
Albany	Juab	...	...	...	...	...	...	...	...	...	0.71	...	0.29	0.0	6	21	3	6	...	Web Greene.
Albany	Millard	1	63.0	...	...	87	6	37	*12	44	0.94	...	0.44	0.0	4	14	11	5	W.	A. Madsen.
Albany	Utah	4,637	2	...	...	...	...	...	...	...	0.94	...	0.48	0.0	5	12	12	6	sw.	J. Finlinson.
Albany	Utah	4,532	14	64.4	+4.4	95	*6	35	18	51	0.70	+0.31	0.50	0.0	2	18	6	6	sw.	D. L. Coombs.
Albany	Sevier	5,350	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. K. Henry.
Albany	Millard	5,200	11	58.5	-1.2	84	23	30	12	49	1.68	+0.82	0.70	0.0	6	17	2	11	sw.	Anton Nielsen.
Albany	Utah	7,474	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Thomas Emmott.
Albany	Utah	5,075	14	64.6	+6.4	95	7	30	11	57	...	...	...	...	...	27	1	0	...	Agent Rio Grande R. R.
Albany	Juab	1	60.0	...	...	87	8	30	12	50	1.22	...	0.50	0.0	4	14	13	3	...	Ag. Rio Grande W. R. R.
Albany	Utah	1	60.1	...	...	85	6	34	11	37	1.15	...	0.97	0.0	3	18	6	6	se.	E. E. Edwards.
Albany	Carbon	5,540	7	59.5	+0.6	90	*5	32	*12	49	1.02	-0.03	0.68	0.0	3	...	...	...	...	W. A. Knight.
Averages				60.5	+0.4	...	...	...	...	...	1.21	+0.60	...	0.0	4	18	6	6	sw.	E. E. Branch.
SOUTHERN.																				
Albany	San Juan	4,800	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Miss S. Hubert.
Albany	Beaver	2	56.6	...	...	81	11	30	10	42	1.27	...	0.80	0.0	3	...	...	...	...	A. B. Anderson.
Albany	Iron	...	58.6	...	...	84	19	35	*15	49	1.56	...	1.49	0.0	4	19	6	5	n.	Prof. R. V. Smith.
Albany	Garfield	5	51.8	+1.9	84	10	26	*17	50	2.55	...	+2.15	1.04	0.0	8	20	2	8	...	H. J. McCullough.
Albany	Garfield	5,700	6	58.4	-3.1	84	*5	33	17	43	1.21	...	0.40	0.0	6	...	...	...	...	Geo. H. Barney.
Albany	Washington	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Joseph T. Atkin.
Albany	Beaver	7,318	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Prof. Albert Warren.
Albany	Wayne	4,000	11	64.5	-0.2	94	6	40	*1	45	1.27	+0.60	0.50	0.0	7	9	8	13	...	J. C. White.
Albany	San Juan	1	60.2	...	...	89	8	29	17	44	2.81	...	1.00	0.0	6	19	5	6	S.	Joseph D. Lyman.
Albany	Garfield	3,000	7	72.6	+0.4	99	6	45	18	37	1.84	+1.22	0.81	0.0	6	20	9	1	...	F. W. Gibbons.
Albany	Kane	4,925	6	58.0	-2.1	81	6	25	16	45	0.30	...	0.10	0.0	3	19	0	7	...	E. M. Ford.
Albany	San Juan	7,000	6	50.7	-1.2	80	*6	30	17	33	1.83	+0.54	...	0.0	5	13	10	5	...	Mrs. G. W. Carpenter.
Albany	Wayne	7,000	14	51.5	-2.1	78	6	28	17	38	1.30	+0.78	0.35	0.0	5	...	...	...	...	Michael Hansen.
Albany	Piute	9,180	7	56.4	-1.3	81	10	20	17	45	1.33	+0.31	0.83	T.	7	11	8	11	sw.	John W. Henry.
Albany	Grand	4,000	17	66.0	+0.2	95	*7	40	18	45	2.68	+0.98	1.04	0.0	8	...	...	...	...	Henry Crouse.
Albany	Iron	5,479	6	58.8	-1.4	82	6	31	14	40	0.91	-0.17	0.67	0.0	5	21	8	1	W.	Weather Bureau.
Albany	Iron	5,970.																		

Sections and stations.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.
NORTHERN.																																
Alta (near)	55.42	63.44	66.33	70.45	75.43	78.45	81.47	84.49	87.51	90.53	93.55	96.57	99.59	102.61	105.63	108.65	111.67	114.69	117.71	120.73	123.75	126.77	129.79	132.81	135.83	138.85	141.87	144.89	147.91	150.93	153.95	156.97
Arctic	56.43	64.45	67.47	71.49	76.51	81.53	86.55	91.57	96.59	101.61	106.63	111.65	116.67	121.69	126.71	131.73	136.75	141.77	146.79	151.81	156.83	161.85	166.87	171.89	176.91	181.93	186.95	191.97	196.99	201.01	206.03	209.05
Barrow	57.44	65.46	68.48	72.50	77.52	82.54	87.56	92.58	97.60	102.62	107.64	112.66	117.68	122.70	127.72	132.74	137.76	142.78	147.80	152.82	157.84	162.86	167.88	172.90	177.92	182.94	187.96	192.98	197.00	202.02	207.04	210.06
Bethel	58.45	66.47	69.49	73.51	78.53	83.55	88.57	93.59	98.61	103.63	108.65	113.67	118.69	123.71	128.73	133.75	138.77	143.79	148.81	153.83	158.85	163.87	168.89	173.91	178.93	183.95	188.97	193.99	199.01	204.03	209.05	212.07
Boulder	59.46	67.48	70.50	74.52	79.54	84.56	89.58	94.60	99.62	104.64	109.66	114.68	119.70	124.72	129.74	134.76	139.78	144.80	149.82	154.84	159.86	164.88	169.90	174.92	179.94	184.96	189.98	194.00	199.02	204.04	209.06	212.08
Butte	60.47	68.49	71.51	75.53	80.55	85.57	90.59	95.61	100.63	105.65	110.67	115.69	120.71	125.73	130.75	135.77	140.79	145.81	150.83	155.85	160.87	165.89	170.91	175.93	180.95	185.97	190.99	196.01	201.03	206.05	211.07	214.09
Calumet	61.48	69.50	72.52	76.54	81.56	86.58	91.60	96.62	101.64	106.66	111.68	116.70	121.72	126.74	131.76	136.78	141.80	146.82	151.84	156.86	161.88	166.90	171.92	176.94	181.96	186.98	191.00	196.02	201.04	206.06	211.08	214.10
Chandler	62.49	70.51	73.53	77.55	82.57	87.59	92.61	97.63	102.65	107.67	112.69	117.71	122.73	127.75	132.77	137.79	142.81	147.83	152.85	157.87	162.89	167.91	172.93	177.95	182.97	187.99	193.01	198.03	203.05	208.07	213.09	216.11
Chickadee	63.50	71.52	74.54	78.56	83.58	88.60	93.62	98.64	103.66	108.68	113.70	118.72	123.74	128.76	133.78	138.80	143.82	148.84	153.86	158.88	163.90	168.92	173.94	178.96	183.98	188.00	193.02	198.04	203.06	208.08	213.10	216.12
Chickadee	64.51	72.53	75.55	79.57	84.59	89.61	94.63	99.65	104.67	109.69	114.71	119.73	124.75	129.77	134.79	139.81	144.83	149.85	154.87	159.89	164.91	169.93	174.95	179.97	184.99	189.01	194.03	199.05	204.07	209.09	214.11	217.13
Chickadee	65.52	73.54	76.56	80.58	85.60	90.62	95.64	100.66	105.68	110.70	115.72	120.74	125.76	130.78	135.80	140.82	145.84	150.86	155.88	160.90	165.92	170.94	175.96	180.98	185.00	190.02	195.04	200.06	205.08	210.10	215.12	218.14
Chickadee	66.53	74.55	77.57	81.59	86.61	91.63	96.65	101.67	106.69	111.71	116.73	121.75	126.77	131.79	136.81	141.83	146.85	151.87	156.89	161.91	166.93	171.95	176.97	181.99	187.01	192.03	197.05	202.07	207.09	212.11	217.13	220.15
Chickadee	67.54	75.56	78.58	82.60	87.62	92.64	97.66	102.68	107.70	112.72	117.74	122.76	127.78	132.80	137.82	142.84	147.86	152.88	157.90	162.92	167.94	172.96	177.98	182.00	187.02	192.04	197.06	202.08	207.10	212.12	217.14	220.16
Chickadee	68.55	76.57	79.59	83.61	88.63	93.65	98.67	103.69	108.71	113.73	118.75	123.77	128.79	133.81	138.83	143.85	148.87	153.89	158.91	163.93	168.95	173.97	178.99	184.01	189.03	194.05	199.07	204.09	209.11	214.13	219.15	222.17
Chickadee	69.56	77.58	80.60	84.62	89.64	94.66	99.68	104.70	109.72	114.74	119.76	124.78	129.80	134.82	139.84	144.86	149.88	154.90	159.92	164.94	169.96	174.98	179.00	184.02	189.04	194.06	199.08	204.10	209.12	214.14	219.16	222.18
Chickadee	70.57	78.59	81.61	85.63	90.65	95.67	100.69	105.71	110.73	115.75	120.77	125.79	130.81	135.83	140.85	145.87	150.89	155.91	160.93	165.95	170.97	175.99	181.01	186.03	191.05	196.07	201.09	206.11	211.13	216.15	221.17	224.19
Chickadee	71.58	79.60	82.62	86.64	91.66	96.68	101.70	106.72	111.74	116.76	121.78	126.80	131.82	136.84	141.86	146.88	151.90	156.92	161.94	166.96	171.98	177.00	182.02	187.04	192.06	197.08	202.10	207.12	212.14	217.16	222.18	225.20
Chickadee	72.59	80.61	83.63	87.65	92.67	97.69	102.71	107.73	112.75	117.77	122.79	127.81	132.83	137.85	142.87	147.89	152.91	157.93	162.95	167.97	172.99	178.01	183.03	188.05	193.07	198.09	203.11	208.13	213.15	218.17	223.19	226.21
Chickadee	73.60	81.62	84.64	88.66	93.68	98.70	103.72	108.74	113.76	118.78	123.80	128.82	133.84	138.86	143.88	148.90	153.92	158.94	163.96	168.98	173.00	178.02	183.04	188.06	193.08	198.10	203.12	208.14	213.16	218.18	223.20	226.22
Chickadee	74.61	82.63	85.65	89.67	94.69	99.71	104.73	109.75	114.77	119.79	124.81	129.83	134.85	139.87	144.89	149.91	154.93	159.95	164.97	169.99	175.01	180.03	185.05	190.07	195.09	200.11	205.13	210.15	215.17	220.19	225.21	228.23
Chickadee	75.62	83.64	86.66	90.68	95.70	100.72	105.74	110.76	115.78	120.80	125.82	130.84	135.86	140.88	145.90	150.92	155.94	160.96	165.98	171.00	176.02	181.04	186.06	191.08	196.10	201.12	206.14	211.16	216.18	221.20	226.22	229.24
Chickadee	76.63	84.65	87.67	91.69	96.71	101.73	106.75	111.77	116.79	121.81	126.83	131.85	136.87	141.89	146.91	151.93	156.95	161.97	166.99	172.01	177.03	182.05	187.07	192.09	197.11	202.13	207.15	212.17	217.19	222.21	227.23	230.25
Chickadee	77.64	85.66	88.68	92.70	97.72	102.74	107.76	112.78	117.80	122.82	127.84	132.86	137.88	142.90	147.92	152.94	157.96	162.98	167.00	172.02	177.04	182.06	187.08	192.10	197.12	202.14	207.16	212.18	217.20	222.22	227.24	230.26
Chickadee	78.65	86.67	89.69	93.71	98.73	103.75	108.77	113.79	118.81	123.83	128.85	133.87	138.89	143.91	148.93	153.95	158.97	163.99	168.01	173.03	178.05	183.07	188.09	193.11	198.13	203.15	208.17	213.19	218.21	223.23	228.25	231.27
Chickadee	79.66	87.68	90.70	94.72	99.74	104.76	109.78	114.80	119.82	124.84	129.86	134.88	139.90	144.92	149.94	154.96	159.98	164.00	169.02	174.04	179.06	184.08	189.10	194.12	199.14	204.16	209.18	214.20	219.22	224.24	229.26	232.28
Chickadee	80.67	88.69	91.71	95.73	100.75	105.77	110.79	115.81	120.83	125.85	130.87	135.89	140.91	145.93	150.95	155.97	160.99	166.01	171.03	176.05	181.07	186.09	191.11	196.13	201.15	206.17	211.19	216.21	221.23	226.25	231.27	234.29
Chickadee	81.68	89.70	92.72	96.74	101.76	106.78	111.80	116.82	121.84	126.86	131.88	136.90	141.92	146.94	151.96	156.98	162.00	167.02	172.04	177.06	182.08	187.10	192.12	197.14	202.16	207.18	212.20	217.22	222.24	227.26	232.28	235.30
Chickadee	82.69	90.71	93.73	97.75	102.77	107.79	112.81	117.83	122.85	127.87	132.89	137.91	142.93	147.95	152.97	157.99	163.01	168.03	173.05	178.07	183.09	188.11	193.13	198.15	203.17	208.19	213.21	218.23	223.25	228.27	233.29	236.31
Chickadee	83.70	91.72	94.74	98.76	103.78	108.80	113.82	118.84	123.86	128.88	133.90	138.92	143.94	148.96	153.98	158.00	163.02	168.04	173.06	178.08	183.10	188.12	193.14	198.16	203.18	208.20	213.22	218.24	223.26	228.28	233.30	237.32
Chickadee	84.71	92.73	95.75	99.77	104.79	109.81	114.83	119.85	124.87	129.89	134.91	139.93	144.95	149.97	154.99	159.01	164.03	169.05	174.07	179.09	184.11	189.13	194.15	199.17	204.19	209.21	214.23	219.25	224.27	229.29	234.31	238.33
Chickadee	85.72	93.74	96.76	100.78	105.80	110.82	115.84	120.86	125.88	130.90	135.92	140.94	145.96	150.98	155.00	160.02	165.04	170.06	175.08	180.10	185.12	190.14	195.16	200.18	205.20	210.22	215.24	220.26	225.28	230.30	235.32	239.34
Chickadee	86.73	94.75	97.77	101.79	106.81	111.83	116.85	121.87	126.89	131.91	136.93	141.95	146.97	151.99	156.01	161.03	166.05	171.07	176.09	181.11	186.13	191.15	196.17	201.19	206.21	211.23	216.25	221.27	226.29	231.31	236.33	240.35
Chickadee	87.74	95.76	98.78	102.80	107.82	112.84	117.86	122.88	127.90	132.92	137.94	142.96	147.98	152.00	157.02	162.04	167.06	172.08	177.10	182.12	187.14	192.16	197.18	202.20	207.22	212.24	217.26	222.28	227.30	232.32	237.34	241.36
Chickadee	88.75	96.77	99.79	103.81	108.83	113.85	118.87	123.89	128.91	133.93	138.95	143.97	148.99	153.01	158.03	163.05	168.07	173.09	178.11	183.13	188.15	193.17	198.19	203.21	208.23	213.25	218.27	223.29				

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, SEPTEMBER, 1906.

Sections and stations.	Day of month.																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine																																		
Altam near	1.01	.20					.06				.03		T.	.10	.13	.10																		
Blacksmith's Fork	.70						.16							.28																				
Castle Rock	.60	.04								.06				.20	.10	.13																		
Corinne	.15						T.						.52																					
Evanston, Wyo	.01	.01									.10		.03			.19																		
Farmington	.41	T.											.13	.55	.35	.05																		
Ft. Duchesne	*	*	.35											*	*	.50																		
Grantville (near)	.05													.39	.24																			
Hatch														.10																				
Hemeter	.28	T.					.04				T.			.18		.66																		
Huntsville	.92												.67	.06		.04																		
Kelton																																		
Logan	.82													.83																				
Lucin																																		
Marion	.41	.03			T.	T.	T.	T.						.25	.02																	T.	T.	
Meadowville	.30						.10							.10	T.	.40																		
Millville	.52						T.							.66	T.	T.																		
Morgan	.51												.35		.02																			
Ogden No. 1	.28													1.00	.02																			
Ogden No. 2	.38						T.						*	.96																				
Park City																																		
Pocatello, Idaho			T.	T.			.15						.30	T.	.03																			
Randolph	1.75	T.						.15	T.			.12		T.	.65	T.	T.	.02	.05	.08														
Saltair Beach	.55	T.					T.			T.			.13	.49	.10	T.																		
Salt Lake City	.77												.15	.12																				
Snowville																																		
Strawberry Valley																																		
Theodore	.22	.30								T.				T.	.70	.15																	.14	
Tooele	.85						T.						.10	.05	.23	.03																		
Vernal (near)	*	.68									.03			.07	.05	.13																		
Woodruff																																		
MIDDLE.																																		
Annabella (near)	.42								.40				.18	T.	.06	.76									.26									
Black Rock	1.27	.02	.01			.01	T.						T.	.01	.91									.10										
Castle Dale	.15	.05														.35								.05										
Clear Creek																																		
Deseret	.53					T.							.07	T.	.33	.02									T.									
Emery	T.														.09										T.									
Fillmore	1.25	.01									.50		.03	.08	.83	.11									.07									
Garrison	.50	T.				T.	T.						T.	T.	T.	T.									T.									
Government Creek	.55	.02					T.						*	.3	.10										T.									
Grand Junction, Colo.	.04	T.												.23	.93	.11	.02							.05	.05	T.								
Green River																																		
Hatch																																		
Indianola																.40																		
Levan	1.14	.08											.04		.24	.20	.04								T.									
Manti	.42	T.				T.		T.						.18	.30	.41	.10								T.	.06		.06						
Mount Nebo	.42	.14					T.						T.	.19	.38	.05																		
Mount Pleasant	.65												.39		.20																			
Nephi	.29	.11				.04							.07	.13	.07																			
Nephi (near)	*	.40											*	*	.21																			
Oak City	.44												.30	.12											T.									
Payson	.48	.08											.18	.08	.02																			
Provo	T.	.50												.20	T.	T.																		
Richfield																																		
Scipio	.50	.02				T.								.14	.70	.19									.07									
Soldier Summit																																		
Sunny-side	.27	.30	.10								.18														.21		T.	.07						
Thistle	.50																																	
Trout Creek	.50					.02								.40	.30																			
Utah Lake Pumping Station	.97						T.						.05	.13																				
Wellington	.68									T.			.18												.16									
SOUTHERN.																																		
Aneth															.80	.25																		
Beaver	.22														.49	.03																		
Cedar City	.03														1.04	T.							.01											
Coyote	.30	.02						.07					.08		.02	.80																		
Enterprise (near)	.50														.20	.04	.35																	
Escalante						.08																												
Frisco																																		

681.05
U.S.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

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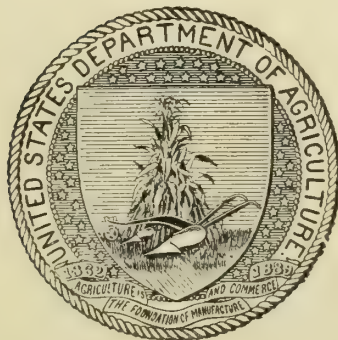
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

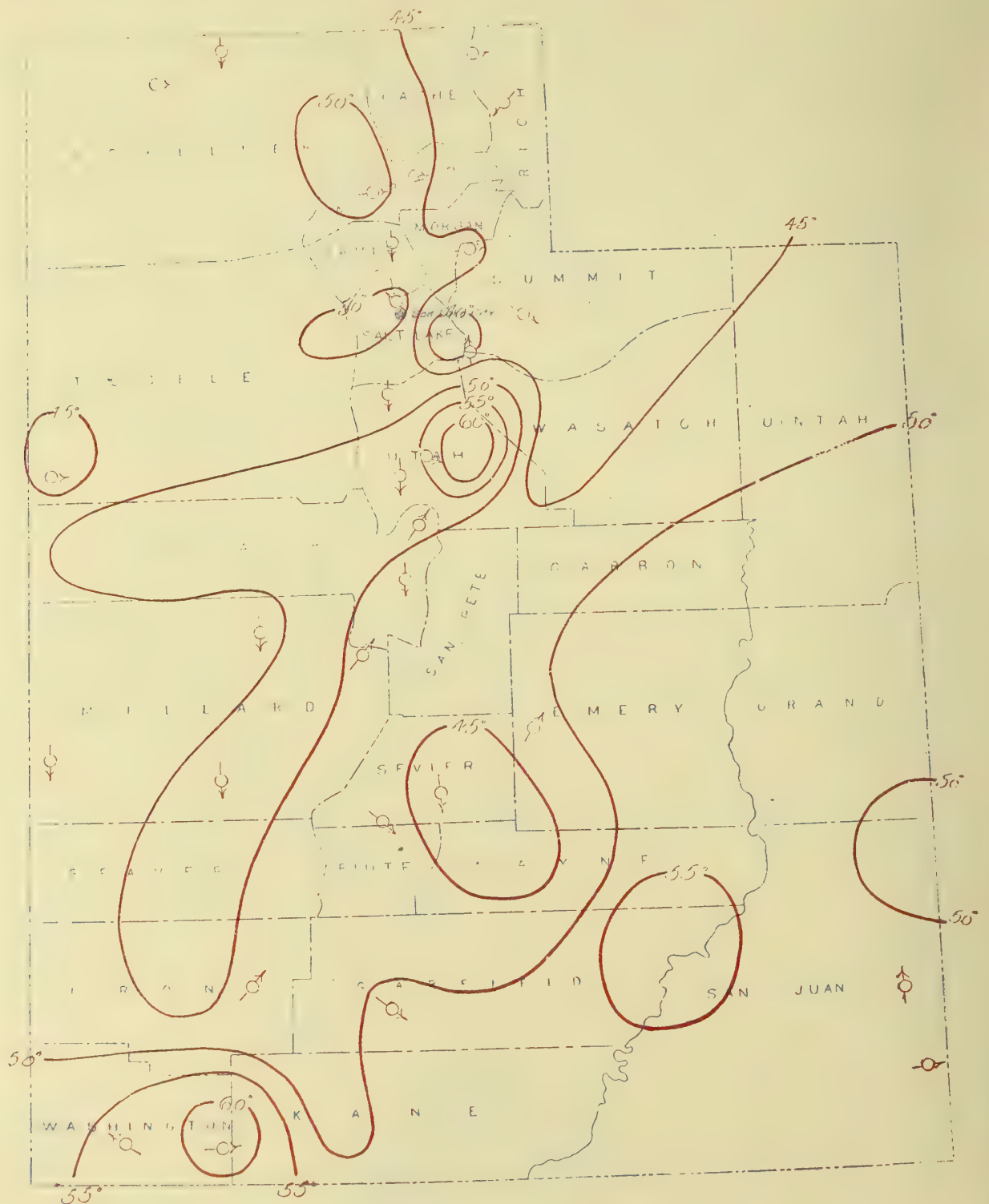
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
NOVEMBER 23, 1906.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VIII. SALT LAKE CITY, UTAH, OCTOBER, 1906. No. 12.

GENERAL SUMMARY.

Unusually favorable weather characterized the first and last parts of the month. Clear skies, with warm days and cool nights, prevailed thruout the State, and killing frost did considerable damage in various localities. A very general windstorm swept over this section of the country, causing much damage in the northern counties, on the 20th and 21st. The storm was accompanied by a cold wave which brought freezing temperatures in many places.

Dry weather prevailed in all sections of the State the greater part of the time. With the exception of a few local showers, no precipitation occurred until the latter half of the month. During the storm period, snowfall was general, ranging from a mere trace in many of the valleys, to 24 inches in the mountains. Hail and sleet fell at scattered points, but no damage was caused thereby.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 54 stations, was 48.4° , or 0.1° above the normal. The highest local monthly mean was 60.6° at Rockville; the lowest was 38.8° at Alta (near). The highest temperature recorded was 82° at Thistle on the 1st and 9th; the lowest was 6° at Strawberry Valley on the 23rd and 24th, and at Plateau on the 23rd, giving an absolute range for the section of 92° . The greatest daily range for any station was 66° at Thistle on the 19th, 29th and 30th. The highest temperatures of the month were generally recorded on the 1st and 16th, and the lowest generally occurred on the 23rd.

PRECIPITATION.

The average precipitation, determined from the reports of 72 stations, was 0.34 inch, or 0.55 inch below the normal. The deficiency increased from north to south. The greatest monthly amount was 2.49 inches at Ibapah (near), and the least was none at Soldier Summit, Loa, Rockville and St. George. The greatest precipitation in any 24 consecutive hours was 1.30 inches at Alpine on the 1st. There was an average of 2 days with 0.01 inch or more of precipitation; 2 over the northern portion, and 1 over the middle and southern portions.

WIND.

The prevailing direction of the wind for the section was north. The total number of miles recorded at Salt Lake City was 33; at Modena, 6,835; at Grand Junction, Colo., 2,996; and

at Pocatello, Idaho, 7,077. The maximum velocity at Salt Lake City was 52 miles per hour from the northeast on the 21st; at Modena, 37 miles from the southwest on the 16th; at Grand Junction, Colo., 35 miles from the northwest on the 3rd; and at Pocatello, Idaho, 44 miles from the southwest on the 12th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 21; partly cloudy days, 5; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 68 per cent; Modena 87 per cent; Grand Junction, Colo., 78 per cent; and Pocatello, Idaho, 78 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 44 per cent, the lowest observed reading being 19 per cent on the 11th; at Modena, 41 per cent, the lowest observed reading being 13 per cent on the 11th; at Grand Junction, Colo., 52 per cent, the lowest observed reading being 20 per cent on the 12th; and at Pocatello, Idaho, 46 per cent, the lowest observed reading being 15 per cent on the 11th.

OBSERVERS' REMARKS.

Alpine.—With the exception of a few hard windstorms, the weather during the month was very good.—T. B. Whitby.

Aneth.—While the precipitation was very light during the month, there were more cold, raw, blustery days than usual.—Sophie Hubert.

Black Rock.—The month was remarkably free from storms, and clear days were abundant. With few exceptions, the nights were cold.—Willard Burbank.

Hyrum.—The general windstorm on the 20th and 21st was not as severe in this locality as it was in adjacent localities.—A. M. Israelson.

Castle Rock.—The blizzard at the beginning of the last decade did no damage here, but the forests on the sides of Porcupine Mountains were considerably damaged.—David Moore.

Deseret.—While the temperatures were unusually low, the weather was generally very favorable.—S. W. Western.

Emery.—The weather was dry and pleasant until the 18th, when we had a few days of cold, stormy weather. During the closing decade the weather was moderate again.—H. C. Wickman.

Heber.—The weather was pleasant and dry, except the 21st and 22nd, when we had a northwest blizzard.—John Crook.

MISCELLANEOUS PHENOMENA.

Halo, lunar.—Ibapah (near), 27.

Light fog.—Garrison, 3; Ibapah (near), 12.

Sleet.—Alta (near), 19; Indianola, 21; Vernal, 19.

Thunderstorms.—Aneth, 19, 22; Randolph, 9; Utah Lake, 18.

Hail.—Black Rock, 20; Government Creek, 3; Levan, 19, 20; Marion, 4, 13, 20; Snowville, 3.

High winds.—Aneth, 4, 5, 13, 19, 21, 22; Black Rock, 3, 11, 16; Castle Rock, 21; Cedar City, 3, 16; Deseret, 3, 12, 13, 16, 19–22; Enterprise, 12, 16, 20–22; Farmington, 20–22; Garrison, 16, 19–22, 26, 31; Government Creek, 4, 11, 12, 16–18, 31; Heber, 16, 20–22; Henefer, 16, 17, 20; Huntsville, 3, 12, 16, 20, 21; Ibapah (near), 5, 16, 20; La Sal, 4, 12; Levan, 16; Marion, 16, 18; Marysville (near), 3, 16, 19–21; Meadowville, 16, 21, 25, 26; Modena, 16; Mt. Nebo, 3, 16, 21; Nephi, 3; Ogden, 21; Pinto, 20, 21; Provo, 16–20; Ranch, 3, 4, 13, 18–20; Randolph, 21, 22; Salt Lake City, 3, 16, 19–21; St. George, 19; Scipio, 12; Snowville, 21; Sunnyside, 21; Theodore, 12, 16, 17, 21; Tropic, 22; Utah Lake, 3, 11, 12, 16; Vernal, 20–23.

CORRECTIONS.

AUGUST.

Page 61: Castle Dale—Lowest temperature recorded 36° on the 31st, should be 35° on the 25th. Grayson—Highest temperature recorded 92° on the 9th, should be 92° on the *9th. Morgan—Highest temperature recorded 90° on the 10th, should be 90° on the *10th.

Page 62: Alta (near)—Mean maximum temperature recorded 71.1°, should be 71.6°.

SEPTEMBER.

Page 69: Indianola—Precipitation recorded 0.40 on the 15th, should be 0.04; total precipitation recorded 0.40, should be 0.04, incomplete.

LATE REPORTS.

JANUARY.

Grantsville (near): Total precipitation, 0.83 inch; greatest in any 24 consecutive hours, 0.30 inch; number of days with 0.01 inch or more of precipitation, 4.

FEBRUARY.

Annabella (near): Total precipitation, 0.58 inch; greatest in any 24 consecutive hours, 0.32 inch; total snowfall, 11.0 inches; number of days with 0.01 inch or more of precipitation, 3.

Grantsville (near): Total precipitation, 0.72 inch; greatest in any 24 consecutive hours, 0.45 inch; number of days with 0.01 inch or more of precipitation, 5.

Nephi (near): Total precipitation, 0.68 inch; greatest in any 24 consecutive hours, 0.23 inch; number of days with 0.01 inch or more of precipitation, 5; direction of wind, north.

MARCH.

Grantsville (near): Total precipitation, 1.86 inches; greatest in any 24 consecutive hours, 0.50 inch; number of days with 0.01 inch or more of precipitation, 8.

Logan (temperature record for 24 days): Mean temperature, 34.3°; highest, 52° on the 26th; lowest, 13° on the 1st and other dates; greatest daily range, 33°. Total precipitation, 2.61 inches; greatest in any 24 consecutive hours, 0.87 inch; number of days with 0.01 inch or more of precipitation, 10.

Nephi (near): Total precipitation, 3.83 inches; greatest in any 24 consecutive hours, 1.00 inch; total snowfall, 18.0 inches; number of days with 0.01 inch or more of precipitation, 9; clear days, 7; partly cloudy days, 4; cloudy days, 20; direction of wind, north and southwest.

Utah Lake: Mean temperature, 36.0°; highest, 58° on the 9th; lowest, 8° on the 16th; greatest daily range, 28. Total precipitation, 1.00 inch; greatest in any 24 consecutive hours, 0.35 inch; total snowfall, 7.8 inches; number of days with 0.01 inch or more of precipitation, 9; clear days, 3; partly cloudy days, 11; cloudy days, 17; direction of wind, north.

APRIL.

Nephi (near): Total precipitation, 2.87 inches; greatest in any 24 consecutive hours, 1.18 inches; number of days with 0.01 inch or more of precipitation, 8; clear days, 11; partly cloudy days, 11; cloudy days, 8; direction of wind, southwest.

MAY.

Grantsville (near): Total precipitation, 2.80 inches; number of days with 0.01 inch or more of precipitation, 4.

Nephi (near): Total precipitation, 2.92 inches; greatest in any 24 consecutive hours, 1.16 inches; number of days with 0.01 inch or more of precipitation, 5; direction of wind, southwest.

JUNE.

Grantsville (near): Total precipitation, 0.59 inch; greatest in any 24 consecutive hours, 0.40 inch; number of days with 0.01 inch or more of precipitation, 3.

Nephi (near): Total precipitation, 0.43 inch; greatest in any

24 consecutive hours, 0.23 inch; number of days with 0.01 inch or more of precipitation, 2; clear days, 11; partly cloudy days, 18; cloudy days, 1; direction of wind, north and southwest.

Morgan (record for 23 days): Mean temperature, 55.1°; highest, 87° on the 11th; lowest, 28° on the 8th; greatest daily range, 46°. Total precipitation, 0.99 inch; greatest in any 24 consecutive hours, 0.50 inch; number of days with 0.01 inch or more of precipitation, 5; clear days, 18; partly cloudy days, 5; cloudy days, 2; direction of wind, southwest.

Strawberry Valley (temperature record for 16 days): Mean temperature, 50.5°; highest, 78° on the 15th; lowest, 24° on the 23rd; greatest daily range, 46°. Total precipitation, 3.49 inches; greatest in any 24 consecutive hours, 0.62 inch; number of days with 0.01 inch or more of precipitation, 19.

JULY.

Cedar City (record for 20 days): Mean temperature, 64.5°; highest, 94° on the 22nd; lowest, 55° on the 27th; greatest daily range, 33°. Total precipitation, 0.40 inch; greatest in any 24 consecutive hours, 0.24 inch; number of days with 0.01 inch or more of precipitation, 3.

AUGUST.

Cedar City: Mean temperature, 68.4°; highest, 90° on the 5th; lowest, 46° on the 29th; greatest daily range, 37°. Total precipitation, 0.88 inch; greatest in any 24 consecutive hours, 0.78 inch; number of days with 0.01 inch or more of precipitation, 5.

Garrison (record for 30 days): Mean temperature, 68.4°; highest, 93° on the 9th; lowest, 38° on the 26th; greatest daily range, 42°. Total precipitation, 0.93 inch; greatest in any 24 consecutive hours, 0.50 inch; number of days with 0.01 inch or more of precipitation, 7; clear days, 13; partly cloudy days, 9; cloudy days, 9; direction of wind, south.

Ogden No. 2: Mean temperature and departure, 73.7°; highest, 98° on the 10th and other dates; lowest, 50° on the 1st. Total precipitation and departure, 3.96 inches, +3.49°. Greatest in any 24 consecutive hours, 2.11 inches; number of days with 0.01 inch or more of precipitation, 5; clear days, 15; cloudy days, 9; cloudy days, 7; direction of wind, west.

SEPTEMBER.

Parowan (near): Total precipitation, 2.41 inches; greatest in any 24 consecutive hours, 1.52 inches; number of days with 0.01 inch or more of precipitation, 3.

COMPARATIVE DATA FOR OCTOBER.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	precipitation.
1891	49.7	90	12	
1892	48.3	92	7	
1893	46.9	92	5	
1894	49.8	94	9	
1895	49.2	95	10	
1896	51.0	94	13	
1897	47.8	86	7	
1898	47.0	90	3	
1899	45.6	96	9	
1900	48.9	95	— 1	
1901	51.7	93	5	
1902	50.0	91	8	
1903	50.3	97	6	
1904	48.7	97	7	
1905	45.4	99	0	
1906	48.4	98	6	

CLIMATOLOGICAL DATA, OCTOBER, 1906.

		Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches				Sky.				Observers	
Sections and stations	Counties			Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in inches	Days with no rain or snow	Number clear days	Number partly cloudy days		Number cloudy days	Prevalence of weather
NORTHERN.																			
Alta (near) - T 1	Utah	4,900	10	58.8		72	1	8	23	13	2.00	+0.78	0.30	2.1	1	10	6	5	W. W. Smith
Alpine	Boxelder	4,240	35	50.8	-0.6	98	16	19	22	5	0.35	-0.01	0.35	0.0	1	19	0	1	T. B. White
Corinne	Davis	4,297	6	49.8	-0.1	81	1	22	23	18	0.30	-0.91	0.20	0.1	2	26	2	1	Agent So. Pacific R. R.
Farmonington	Uinta	5,000	12	47.0	+0.3	80	1	19	21	18	0.58	+0.04	0.58	1.0	1	14	10	1	Charles Boylin
Pt. Duchesne	Wasatch	5,000	13	44.8	-0.1	81	1	10	23	22	0.15	-0.81	0.30	2.0	1	19	7	1	Post Surgeon
Heber	Summit	5,301	1	44.6	0	85	2	7	23	50	0.10	-0.97	0.11	0.0	2	17	6	2	John Crook
Hemeter	Weber	5,100	11								0.81	-1.08	0.32	0.5	3	25	7	1	William Fowler
Huntsville	Boxelder	4,230	9								0.19	-0.24	0.19	T.	1	11	10	1	Lar. Peterson
Kelton	CACHE	4,507	15								0.60	-0.81	0.45	0.0	2				Agent So. Pacific Co.
Logan	Boxelder		1																Agricultural College
Lucin	Boxelder		1																Agent So. Pacific R. R.
Mea lowville	Rich	6,200	1	13.2	+0.1	75	2	10	23	39	1.05	+0.03	0.35	10.5	3	25	6	5	J. S. Moffat
Milville	CACHE	4,848	11								0.12	-1.04	0.30	0.0	2				Fred Yeates
Morgan T 5	Morgan	5,080	3	43.0		80	1	10	21	50	0.20		0.10	1.0	2	10	13	3	T. R. G. Welch
Ogden No. 1	Weber	4,340	5	50.1	0.2	80	1	25	20	28	T.	1.0	T.	0.0	0	23	1	4	Emch Farr
Ogden No. 2	Weber	4,316	30	51.8	0	70	1	27	21		0.20	-1.11	0.20	0.0	1	21	3	7	W. H. Chevers
Park City	Summit	7,800	6																P. S. McKinnis
Pocentello, Idaho	Bannock	4,183	6	51.1	+3.4	82	*1	20	22	37	0.46	-0.60	0.12	0.9	5	15	14	2	Weather Bureau
Randolph	Rich		2								0.49		0.30	9.0	4	22	2	7	Wm. Rex
Saltair Beach	Salt Lake	3	49.4			78	*1	21	23	47	0.37		0.35	3.0	2				Francis W. Bailey
Salt Lake City	Salt Lake	4,306	32	52.6	+0.3	85	2	27	23	33	0.39	-1.15	0.31	T.	3	17	7	7	Section Center
Snowville	Boxelder	4,300	10	46.1	-1.5	83	9	9	23	54	0.46	-0.57	0.26	0.0	3	19	10	2	Joseph Robbins
Strawberry Val	Wasatch		10	42.9		78	*1	6	23	40					3	21	3	1	A. R. Larson
Theodore	Wasatch	5,507	10	46.1		70	3	11	24	40	1.40		0.90	15.0	3	21	6	1	M. M. Smith
Tooele	Tooele	4,900	10	52.2	+2.0	70	10	21	22	38	0.54	-0.21	0.50	0.0	2	21	6	1	L. J. Edgington
Vernal (near)	Uinta	11	46.0	-1.6		77	3	20	21	38	0.39	-0.36	0.35	5.5	4	21	2	5	Joab Collier
Woodruff	Rich	6,500	9																Thomas Ashton
Averages				47.0	+0.2						0.47	0.81		2.1	2	29	6	5	W.
MIDDLE.																			
Black Rock	Millard	4,872	6	50.1	+2.3	90	2	10	23	51	0.93	-0.75	0.03	0.2	1	21	5	5	Willard Burbank
Castle Dale - T 3	Emery	5,500	7	49.5	+2.2	79	3	10	*22	50	0.40	-0.11	0.40	0.0	1	25	1	0	James Jeffs
Deseret	Millard	4,511	12	47.2	-1.9	87	9	10	23	50	T.	-0.45	T.	T.	0	23	2	0	S. W. Western
Emery	Emery	6,200	6	40.0	+4.8	80	*10	18	22	51	0.60	+0.24	0.60	6.0	1	5	17	9	H. C. Wickman
Fillmore	Millard	5,100	10	51.2	+1.9	88	2	21	22	38	0.15	-0.68	0.10	0.0	2				J. J. Starley
Garrison - T 2	Millard		3	48.0		82	10	10	21	39	0.10		0.05	1.0	2	23	1	5	E. M. Smith
Governor's Creek	Tooele	5,277	6	49.0	-0.5	82	2	20	*20	39	0.25	-0.22	0.25	2.5	1	25	3	3	Walter James
Grand Junction, Col.	Mesa	4,608	15	52.0	-0.1	83	3	27	23	38	0.50	-0.66	0.40	T.	4	25	1	5	Weather Bureau
Green River	Emery	4,080	9																Louis C. Farrer
Hopah (near) - T 1	Tooele	7,500	3	42.3		78	*3	13	*21	51	2.49		1.21	24.0	5	22	14	14	J. S. Lawton
Indianola	Sanpete		2								T.		T.	T.	6	26	0	5	R. H. Spencer
Levan	Juab	5,010	16	47.2	-0.1	80	10	15	23	12	0.38	-0.91	0.38	T.	1	26	0	5	William Brown
Manti T 1	Sanpete	5,575	12	46.2	-3.2	80	*3	14	23	55	T.	-0.81	T.	T.	0	0	19	1	W. M. Harmon
Mt. Nebo	Utah	4,050	5	52.0	+3.1	81	*1	18	23	11	0.05	-0.26	0.05	0.5	1	28	2	4	D. C. Walkey
Mt. Pleasant - T 1	Sanpete	5,859	14	47.6	-2.4	79	*1	15	21	51	0.40	-0.45	0.40	T.	0	28	3	0	Web Greene
Nephi	Juab		2								T.		T.	T.	0	27	3	1	A. Madsen
Oak City	Millard		1	50.7		86	2	12	22	53	0.27		0.27	0.0	1	27	3	1	J. Finlanson
Pavson	Utah		2								0.13		0.13	1.0	1	13	12	6	D. L. Coombs
Provo - T 2	Utah	4,632	14	50.6	-2.1	91	2	19	23	48	0.20	-0.64	0.10	1.0	2	22	5	4	W. K. Henry
Richfield	Sevier	5,350	10																Anton Nielsen
Scipio	Millard	5,200	11	46.6	-0.8	82	*2	12	*22	52	0.17	-1.07	0.10	2.0	2	21	4	6	Thomas Mennott
Soldier Summit - T 3	Utah	7,474	14	43.3	+2.6	77	29	8	21	52	0.00	-0.66	0.00	0.0	0	19	0	9	Agent Rio Grande R. R.
Thistle	Utah	5,075	14	60.4	+13.2	88	*1	22	*19	60	0.05	-0.47	0.05	0.5	1				Ag. Rio Grande W. R. R.
Trout Creek	Juab		1	50.5		80	*3	15	23	50	1.20		1.15	12.0	2	14	15	2	E. E. Edwards
Utah Lake Emp. Sta	Utah		1	48.0		79	2	12	21	42	0.38		0.26	1.0	2	17	7	7	W. A. Knight
Wellington	Carbon	5,540	7																E. E. Branch
Averages				49.1	+0.8						0.33	-0.68		2.4	1	21	6	4	D.
SOUTHERN.																			
Aneth	San Juan	4,800	0	51.5	-0.6	86	3	22	21	47	0.11	-0.11	0.07	0.0	3	23	8	0	Miss S. Hubert
Beaver	Beaver		2																A. B. Anderson
Cedar City - T 1	Iron		5	51.0		85	3	19	21	47	0.10		0.10	1.0	1	18	6	7	Prof. R. V. Smith
Coyote	Garfield		5	46.1		85	10	9	*23	60	T.		T.	T.	0	22	1	8	H. J. McCullough
Escalante	Garfield	5,700	0	49.5	-1.0	80	17	18	24	42	0.14	-0.27	0.12	0.0	2	27	0	4	Geo. H. Barney
Exper. Farm	Washington		12																Joseph T. Atkin
Frisco	Beaver	7,318	2																Prof. Albert Warren
Giles	Wayne	4,000	11																J. C. White
Grayson	San Juan		1	52.0		79	*1	22	22	37	0.20		0.20	2.0	1	28	0	3	Joseph D. Lyman
Hite	Garfield	3,000	7	50.8	-0.3	91	2	29	23	42	0.11	-0.02	0.11	T.	1	25	6	0	E. W. Gibbons
Kanab - T 5	Kane	4,925	6	49.6	-1.7	81	3	9	24	47	0.20	-0.42	0.20	2.0	1	16	10	10	E. M. Ford
La Sal - T 1	San Juan	7,000	6	46.0		73	*3	13	22	36	0.48			5.0	1	21	5	2	Mrs. G. W. Carpenter
Loa	Wayne	7,000	11	40.7	-0.7	72	2	13	22	40	0.00	-0.43	0.00	0.0	0				Michael Hansen
Marysvale (near)	Piute	6,180	7	47.4	-0.9	81	10	12	*23	52	0.06	-0.61	0.03	0.5	3	17	9	5	John W. Henry
Moab	Grand	4,000	17	52.8	-0.4	86	3	23	21	50	0.23	-0.31	0.22	1.0	2	25	3	3	Henry Crouse
Modena	Iron	5,479	0	49.3	+0.1	82	12	13	23	45	0.34	-0.34	0.32	T.	2	10	10	2	Weather Bureau
Parowan	Iron	5,970	15	48.4	0.5	79	1	18	23	40	0.41	-0.38	0.22	3.0	3	22	6	3	James Connell
Pinto	Washington	5,907	9								0.10	-1.21	0.10	1.0	1				J. H. Harrison
Plateau	Sevier	7,000	4	44.7	0	77	*2	6	23	52	0.31	-0.14	0.23	1.0	2	23	6	2	W. H. Schock
Ranch	Kane	6,700	5	46.5	+0.2	78	2	10	23	45</									

TOTAL PRECIPITATION FOR THE MONTH

SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

451.05
UNT

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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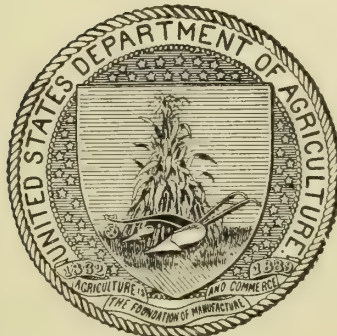
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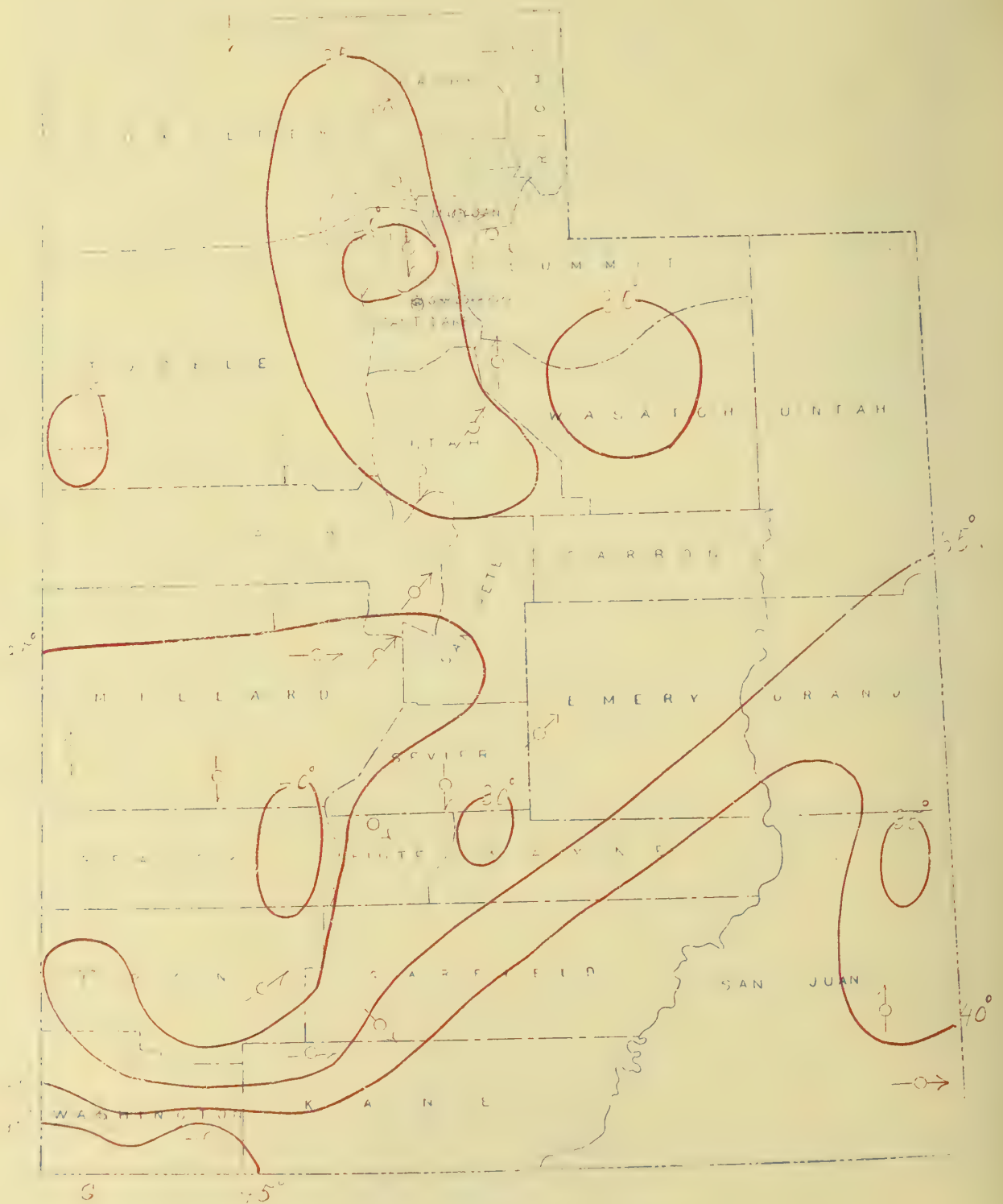
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

DECEMBER 22, 1906.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

PL. VIII. SALT LAKE CITY, UTAH, NOVEMBER, 1906. No. 13.

GENERAL SUMMARY.

Reports from over the State indicate this to be an unusually mild November, temperatures being especially low from the 18th to the 21st, inclusive. The prevalent low barometric pressure during the early part of the month produced mild weather, the highest temperatures occurring from the 10th to the 15th. The high barometric pressure, following closely upon the low, ushered in an unusually cold period about the middle of the month, the cold weather continuing until the close.

Precipitation was above normal everywhere, occurring principally in frequent storms during the latter half of the month, being mostly in the form of snow, with traces of hail. Scattered rains occurred at the beginning of the month, with snow flurries over the mountainous districts. The heavy snows of the latter part of the month fell while the ground was unfrozen, thus producing a very favorable condition. In the southern portion of the State much of the snow melted as it fell, but at the close of the month the snow remained upon the ground from a trace to 10 inches deep in the valleys, and from 1 to 4 feet, well packed, in the mountains, thruout the State.

High, cold, northwesterly winds prevailed over the central part of the State during the severest storms, doing slight scattered damage, the velocity at Salt Lake City being the the highest ever recorded.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 51 stations, was 36.1° , or 1.6° below the normal. The highest local monthly mean was 46.8° at St. George; the lowest was 28.8° at Strawberry Valley. The highest temperature recorded was 90° at Thistle on the 2nd and 4th; the lowest was 18° below zero at Plateau on the 20th, giving an absolute range for the section of 108° . The greatest daily range for any station was 30° at Thistle on the 1st, 2nd and 4th. The highest temperatures of the month occurred from the 8th to the 15th, and the coldest were generally recorded on the 19th and 20th.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 1.81 inches, or 0.76 inch above the normal. The excess increased rapidly from north to south. The greatest monthly amount was 4.31 inches at Grayson, and the least was 0.17 inch at dianola. The greatest precipitation in any 24 consecutive hours was 1.60 inches at Fillmore on the 1st. There was an average of

7 days with 0.01 inch or more of precipitation; 8 over the northern and middle portions, and 6 over the southern portion.

WIND.

The prevailing direction of the wind for the section was west. The total number of miles recorded at Salt Lake City was 4,119; at Modena, 6,685; at Grand Junction, Colo., 2,783; and at Pocatello, Idaho, 7,085. The maximum velocity at Salt Lake City was 66 miles per hour from the northwest on the 15th; at Modena, 41 miles from the southwest on the 4th; at Grand Junction, Colo., 27 miles from the northwest on the 15th; and at Pocatello, Idaho, 39 miles from the southwest on the 15th.

SUNSHINE AND CLOUDINESS

The average number of clear days for the section during the month was 10; partly cloudy days, 8; cloudy days, 12. Determined from the records of automatic sunshine recorders, Salt Lake City had 48 per cent; Modena 67 per cent; Grand Junction, Colo., 48 per cent; and Pocatello, Idaho, 57 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 66 per cent, the lowest observed reading being 30 per cent on the 27th; at Modena, 65 per cent, the lowest observed reading being 26 per cent on the 14th; at Grand Junction, Colo., 67 per cent, the lowest observed reading being 22 per cent on the 16th; and at Pocatello, Idaho, 65 per cent, the lowest observed reading being 34 per cent on the 9th.

OBSERVERS' REMARKS.

Alpine.—The past month brought very cold weather, with temperatures as low as 4° below zero. High winds came from the east.

Aneth.—November was unusually stormy, with more precipitation in the form of snow than usual.

Castle Rock.—High winds characterized the past month. At the close of the month the snow was about 1 foot deep in the Porcupine Mountains, and 5 inches deep at Castle Rock.

Corinne.—During November, changeable weather prevailed, with snow and rain the latter part of the month.

Deseret.—November was a cold, cloudy month, with temperatures much below normal.

Emery.—The first part of the month was warm and pleasant; the latter part, cold and stormy, with much snow.

Government Creek.—The fore part of the month was very pleasant; the latter part, cold and disagreeable.

Heber.—The first half of November was characterized by fine weather, but the latter half was cold and stormy, with precipitation above normal.

Henefer.—November was a cold, stormy month, with three distinct windstorms; but no damage occurred.

Huntsville.—Warm, pleasant weather prevailed during the first part of the month, but the latter part was cold and stormy.

Levan.—The past month has been the coldest November for years.

Marion.—High winds and snowstorms were the principal features of the weather for the month of November.

Marysvale.—Precipitation was above the normal, and sunshine much below for the month of November.

Meadowville.—The weather has been very wet and cold during the past month.

Morgan.—The month was cold and cloudy, with temperatures below zero four days.

Mt. Nebo.—Cold, chilly weather prevailed thruout the month.

Pinto.—The fore part of the month was very pleasant; the latter part, cold and stormy.

Provo.—The heaviest windstorm of the season occurred on the 15th. On the 27th, a heavy east wind, which lasted 24 hours, was the most destructive at this place for a number of years.

Ranch.—November was a very cold, windy month.

Theodore.—Thirty inches of snow has already fallen. This is 6 inches more than last winter's entire snowfall.

Tropic.—An electrical storm of unusual severity occurred on the 27th of November.

Verdure.—Twenty-two inches of snow fell during the storm ending on the 24th of November.

Vernal.—Three heavy thunderstorms, accompanied by precipitation, occurred during the month.

MISCELLANEOUS PHENOMENA.

Earthquake.—Pinto, 11.

Corona, lunar.—Tropic, 29.

Thunder.—Randolph, 3; Tropic, 27.

Halos, lunar.—Henefer, 9; Marysvale, 2.

Fog, dense.—Black Rock, 24; Castle Rock, 6; Deseret, 6, 7; Modena, 6.

Sleet.—Henefer, 3, 16, 17; Nephi (near), 5; Payson, 5, 6, 17, 26; Thistle, 15.

Parhelia.—Government Creek, 29; Levan, 28; Meadowville, 30; Park City, 14; Snowville, 26.

Hail.—Black Rock, 17; Henefer, 16; Ibapah, 5, 15, 16; Levan, 17; Pinto, 17; St. George, 22, 23; Tropic, 26.

Fog, light.—Castle Rock, 7; Cedar City, 6; Deseret, 8, 9, 26, 30; Enterprise, 6, 23, 24; Government Creek, 30; Marion, 6, 7; Parowan, 6; Salt Lake City, 8-10, 20, 22, 26, 29.

High winds.—Aneth, 5, 16, 23, 26, 27; Black Rock, 15, 18; Castle Rock, 15; Deseret, 3-6, 15, 28; Emery, 13, 15; Enterprise, 15, 18-20, 26; Farmington, 18, 19, 22, 23, 27, 30; Garrison, 1, 3-5, 15-18, 20, 21, 28; Government Creek, 4, 15, 23, 28; Heber, 16; Ibapah, 4, 15, 25; Marion, 4, 5; Marysvale, 4; Meadowville, 13-15; Milford, 14; Modena, 4; Ogden No. 1, 15, 22, 27; Provo, 15, 27; Ranch, 17, 18; Salt Lake City, 12-14, 16, 18-20; Scipio, 15, 16; Snowville, 15; Theodore, 15; Tropic, 15.

LATE REPORTS.

FEBRUARY.

Enterprise: Total precipitation, 1.01 inches; greatest in any 24 consecutive hours, 0.42 inch; total snowfall, 2.0 inches; number of days with 0.01 inch or more of precipitation, 8; clear days, 7; partly cloudy days, 10; cloudy days, 11.

Verdure: Total precipitation, 0.41 inch; greatest in any 24

consecutive hours, 0.16 inch; number of days with 0.01 inch or more of precipitation, 4.

MARCH.

Enterprise: Total precipitation, 5.53 inches; number of days with 0.01 inch or more of precipitation, 12; clear days, 6; partly cloudy days, 12; cloudy days, 13; prevailing wind direction, south.

Verdure: Total precipitation, 5.12 inches; greatest in any 24 consecutive hours, 1.10 inches; number of days with 0.01 inch or more of precipitation, 17.

JUNE.

Verdure: No precipitation.

COMPARATIVE DATA FOR NOVEMBER.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	41.1	80	6	0.21
1892	36.7	76	— 6	0.30
1893	34.4	86	—16	0.83
1894	40.0	82	— 9	0.05
1895	32.7	75	—24	1.47
1896	33.4	78	—20	1.23
1897	39.3	78	— 1	0.96
1898	35.7	82	— 8	0.96
1899	40.5	82	— 3	0.70
1900	40.1	80	1	1.51
1901	41.3	76	0	0.29
1902	36.9	81	—13	1.78
1903	39.1	80	—19	0.73
1904	39.4	83	0	T.
1905	37.9	79	—11	1.53
1906	36.1	90	—18	1.81

MEAN TEMPERATURE AND TOTAL PRECIPITATION FOR ANETH SAN JUAN COUNTY, UTAH.

TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1900.....	.....	.....	.....	.....	.....	.....	81.6	75.4	65.5	56.8	44.5	35.4	.....
1901.....	32.4	40.8	44.7	54.4	65.6	71.8	81.6	79.7	68.6	57.9	44.9	33.8	56.1
1902.....	34.0	36.6	41.6	56.0	64.0	74.8	76.0	77.0	67.0	55.2	42.7	26.0	54.1
1903.....	26.4	27.2	44.8	53.2	60.4	70.9	77.1	77.3	64.2	54.8	42.0	27.4	52.1
1904.....	26.6	41.8	47.4	55.0	63.3	71.4	77.6	.....	.....	53.5	40.0	31.5	.....
1905.....	30.3	37.0	47.9	53.0	59.2	72.0	76.4	77.0	68.5	52.4	43.9	28.0	53.1
1906.....	27.3	41.6	47.4	55.7	64.1	70.9	.....	76.2	.....	54.5	43.9	.....	.....
Mean.....	29.5	37.5	45.6	54.6	62.8	72.0	78.4	77.1	66.8	55.0	43.1	30.4	54.1

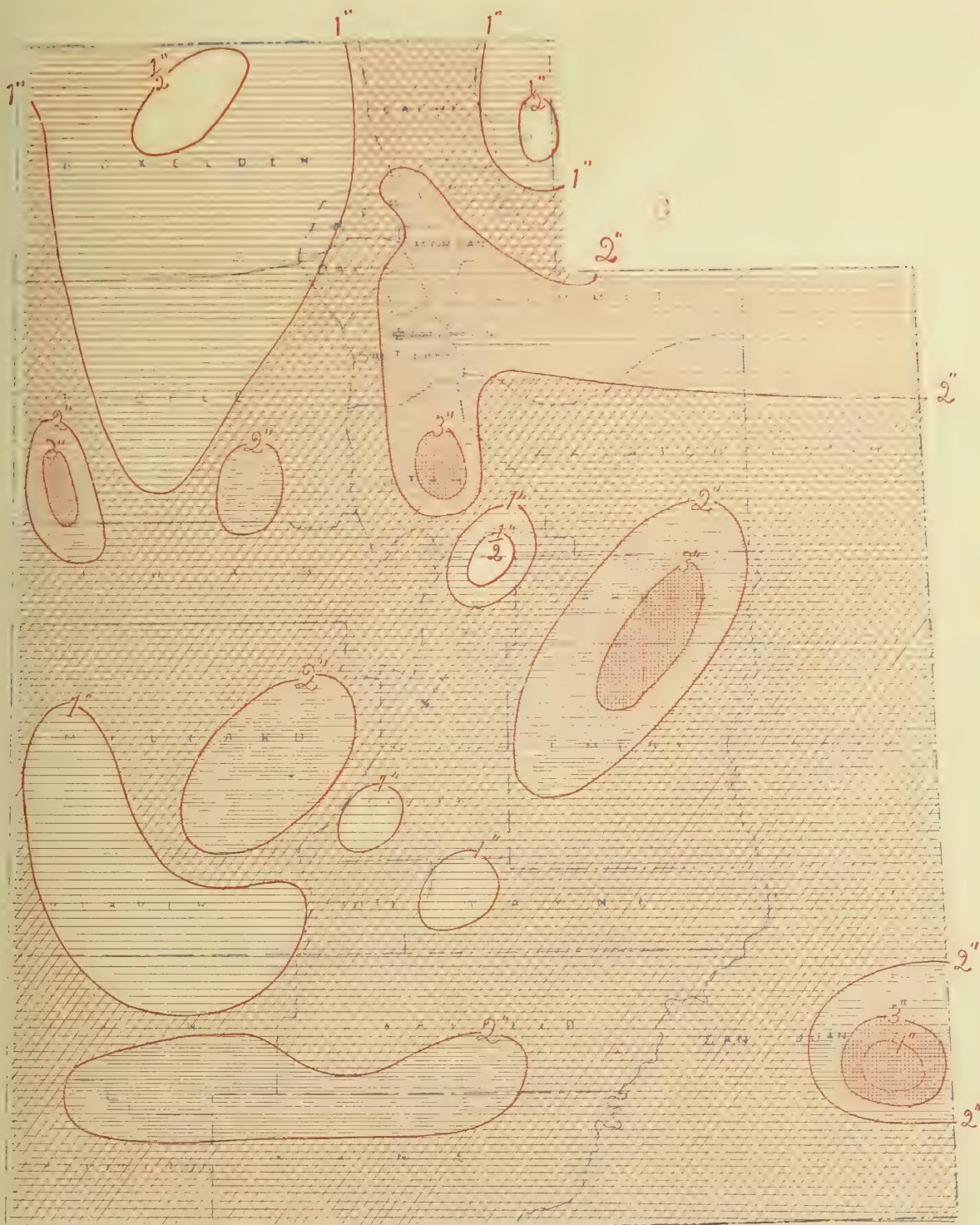
PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1900.....	.....	.....	.....	.....	0.05	1.00	0	0.02	1.88	0.40	1.01	T.	.....
1901.....	1.06	0.86	0.33	0.18	0.30	0.51	1.05	1.46	0	0.36	0	0.01	6.1
1902.....	0.06	0.19	0.46	0.01	0.37	0	0.19	1.22	0.35	0	1.36	1.09	5.3
1903.....	0.11	0.50	1.54	0.59	0.14	0.51	0.38	0.04	0.93	0.06	0	0.02	4.8
1904.....	0.05	0.07	0.10	0.03	0.02	T.	.....	.....	.....	0.50	0	0.28	.....
1905.....	1.67	1.71	1.02	1.40	0.39	T.	0.37	0.07	1.95	0	1.96	0.20	10.7
1906.....	0.29	T.	1.06	0.55	0.25	0	1.20	0.54	.....	0.11	1.01	.....	.....
Mean.....	0.54	0.56	0.75	0.46	0.21	0.29	0.53	0.56	1.02	0.20	0.76	0.27	6.7

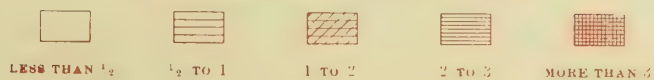
CLIMATOLOGICAL DATA, NOVEMBER, 1906.

Sections and stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing direction of wind.	Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with 27 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
NORTHERN.																				
Alta (near)	Utah	4,900	10																	W. W. Smith
Alton	Boxelder	4,240	36	38.8	+1.4	71	11	7	24	40	0.82	+1.23	0.46	1.0	8					T. B. Whitby.
Alton - T1	Davis	4,267	6	41.3	+0.3	64	14	9	20	42	2.85	-0.19	0.30	8.0	6	10	4	16	sw.	Agent So. Pacific R. R.
Alton - T2	Uinta	5,000	18	32.8	-0.7	70	11	9	20	35	1.83	+0.80	0.60	23.5	6	18	2	10	ne.	Charles Boylin.
Alton - T3	Wasatch	5,000	13	32.4	-3.7	65	*9	-6	*20	41	1.51	+1.50	0.80	12.5	5	8	15	7		Post Surgeon.
Alton - T4	Summit	5,301	7	32.0	-2.7	68	9	-10	*19	47	2.43	+0.12	0.42	12.0	12	7	6	17	s.	John Crook.
Alton - T5	Weber	5,100	11								2.43	+0.75	0.46	12.0	13	9	5	16	nw.	William Brewer.
Alton - T6	Boxelder	4,230	28								1.23	+1.00	0.46	9.0	5	7	10	13	nw.	Lars Petersen.
Alton - T7	Cache	4,507	15			59	8				0.30	-0.02	0.30	3.0	1	3	17	10	nw.	Agent So. Pacific Co.
Alton - T8	Boxelder										1.07	-0.12	0.33							Agricultural College.
Alton - T9	Rich	6,200	7	30.8	-3.7	60	10	-9	20	31	0.75	-0.69	0.30	3.0	4	9	4	17	w.	Agent So. Pacific R. R.
Alton - T10	Cache	4,848	11								1.06	-0.61	0.28							J. S. Moffat.
Alton - T11	Morgan	5,680	3	33.8		66	1	-9	*19	39	2.71		0.41	21.0	12	3	10	15	w.	Fred Yeates.
Alton - T12	Weber	4,310	5	37.6	-2.7	63	*4	9	22	22	2.78	+1.77	0.80	12.3	7	11	7	12	nw.	T. R. G. Welch.
Alton - T13	Weber	4,310	36	37.6	-1.7	60	11	10	*19		1.82	+0.66	0.10	18.2	4	7	3	20	w.	Enoch Farr.
Alton - T14	Summit	7,800	9			57	*9	-11	19	29	12.15		0.70	37.5	7	17	4	7		W. H. Chevers.
Alton - T15	Bannock	4,483	6	35.0	+2.0	66	9	5	18	30	0.76	-0.53	0.32	1.9	9	10	11	9	se.	J. M. Martin.
Alton - T16	Rich		2								0.46		0.25	2.0	4	9	7	14	ne.	Weather Bureau.
Alton - T17	Salt Lake		3	40.1		68	15	12	20	29	1.53		0.44	3.5	9					Wm. Rex.
Alton - T18	Salt Lake	4,366	33	39.2	-0.6	67	14	11	20	31	2.10	+0.74	0.54	18.4	11	10	6	14	se.	Francis W. Bailey.
Alton - T19	Boxelder	4,360	10	34.2	-2.8	67	14	-2	*20	40	0.40	-0.52	0.20	4.0	3	9	9	12	n.	Section Center.
Alton - T20	Wasatch			28.8		69	9	-4	20	45						11	6	13		Joseph Robbins.
Alton - T21	Wasatch	5,507		32.4		65	14	-10	20	39	2.31		0.58	15.5	12	7	8	15		A. B. Larson.
Alton - T22	Tooele	4,900	10	37.2	-3.0	68	14	10	*19	24	1.84	+0.33	0.65		10	11	4	15		M. M. Smith.
Alton - T23	Uinta		11	32.6	-2.4	60	14	3	29	29	2.77	+2.09	1.00	9.0	10	10	9	11		I. J. Elkington.
Alton - T24	Rich	6,500	9																	Joab Collier.
Averages				35.1	-1.7						1.71	+0.48		10.6	8	9	7	14	nw.	Thomas Ashton.
MIDDLE.																				
Alton - T25	Millard	4,872	6	35.4	-2.8	75	14	-7	29	48	2.11	+1.66	0.95		13	8	8	14	n.	Willard Burbank.
Alton - T26	Emery	5,500	7								1.50		0.50		4	6	2	4		James Jeffs.
Alton - T27	Millard	4,541	12	31.0	-3.4	79	10	1	29	57	1.38	+0.98	0.42	7.0	6	10	5	15	n.	S. W. Western.
Alton - T28	Emery	6,260	6	34.1	+0.3	65	*13	4	21	43	2.00	+1.85	0.70	20.0	6	3	5	22	sw.	H. C. Wickman.
Alton - T29	Millard	5,100	16	39.5	-2.1	81	*10	8	*19	49	2.93	+2.09	1.60		9					J. J. Starley.
Alton - T30	Millard		3	35.2		72	*10	-5	29	47	0.88		0.60	11.0	7	9	10	11	s.	E. M. Smith.
Alton - T31	Tooele	5,277	6	34.7	-4.8	64	*14	-1	19	27	2.60	+1.57	0.85	13.0	12	10	7	13	s.	Walter James.
Alton - T32	Mesa	4,608	15	39.9	-0.2	68	5	13	20	33	1.23	+0.60	0.54	4.4	9	9	13	8	nw.	Weather Bureau.
Alton - T33	Emery	4,080	9																	Louis C. Farrer.
Alton - T34	Tooele	7,500	3	29.0		60	10	-9	19	32	3.81		1.23	49.0	11	13	5	12	w.	J. S. Lawton.
Alton - T35	Sanpete		2								0.17		0.06		5					R. H. Spencer.
Alton - T36	Juab	5,010	16	35.0	-1.6	64	4	5	20	33	1.57	+0.64	0.72	8.5	7	12	8	10	sw.	William Brown.
Alton - T37	Sanpete	5,575	12	35.8	-2.2	67	9	5	20	41	1.73	+0.87	0.66	18.0	9	0	24	6		W. M. Harmon.
Alton - T38	Utah	4,650	5	37.8		67	13	9	20	31	1.17	+0.74	0.50	5.5	9	11	5	14	n.	D. C. Walkey.
Alton - T39	Sanpete	5,859	14	35.0	-4.4	65	10	4	19	34	1.26	+0.44	0.56	7.0	5	10	10	10		Web Greene.
Alton - T40	Juab		2								1.81		0.81		9	12	6	12		A. Madsen.
Alton - T41	Millard		1	36.4		67	*10	3	19	35	2.15		1.13		5	16	10	4	w.	J. Finlinson.
Alton - T42	Utah	4,637	2								3.14		0.70	10.0	11	6	6	18	sw.	D. L. Coombs.
Alton - T43	Utah	4,532	14	38.0	-1.2	75	15	8	20	35	3.20	+2.25	0.60	20.0	11	7	8	15	sw.	W. K. Henry.
Alton - T44	Sevier	5,350	15	31.9		74	16	3	26	49	10.39		0.30	13.0	2	6	5	5		S. Christensen.
Alton - T45	Millard	5,260	11	36.0	-1.3	68	*10	-4	29	45	1.99	+0.78	0.87	6.0	8	10	3	17	sw.	Thomas Memmott.
Alton - T46	Utah	7,474	14				*2	-2	27	64	0.81	-0.28	0.25		6	17	3	10		Agent Rio Grande R. R.
Alton - T47	Utah	5,075	14	38.6	+1.9	90	14	-5	26	44	2.20		1.00	6.0	5	9	13	8		Ag. Rio Grande W. R. R.
Alton - T48	Juab		1	34.4		73														Mrs. W. A. Edwards.
Alton - T49	Utah		7																	W. A. Knight.
Alton - T50	Carbon	5,540	1																	E. E. Branch.
Averages				35.6	-1.8						1.95	+0.97		13.6	8	10	8	12	sw.	
SOUTHERN.																				
Alton - T51	San Juan	4,800	6	43.9	-0.9	71	11	14	20	42	1.01	+0.29	0.40	5.8	5	13	11	6	w.	Miss S. Hubert.
Alton - T52	Beaver		2	42.6		75	*5	10	18	49	0.85		0.50	8.5	2					A. B. Anderson.
Alton - T53	Iron		2	36.7		70	15	4	20	33	2.07		0.80	15.5	7	6	17	7		J. M. Foster.
Alton - T54	Garfield		5																	H. J. McCullough.
Alton - T55	Garfield	5,700	6	36.2	-3.6	72	14	1	24	38	2.31	+1.93	1.50	18.5	5	19	0	11		Geo. H. Barney.
Alton - T56	Washington		2	41.0		74	*11	12	19	43						6	0	16		Joseph T. Atkin.
Alton - T57	Beaver	7,318	12	27.0		67	15	-4	19	51	10.98									Prof. Albert Warren.
Alton - T58	Wayne	4,000	11																	J. C. White.
Alton - T59	San Juan		1	39.0		65	*10	9	25	39	4.31		1.20	10.5	6	13	7	10	n.	Joseph D. Lyman.
Alton - T60	Garfield	3,000	7																	F. W. Gibbons.
Alton - T61	Kane	4,925	6																	E. M. Ford.
Alton - T62	San Juan	7,000	6	34.8	-4.0	61	9	3	19	33	1.41	+0.61	0.37	17.5	5	13	10	5		Mrs. G. W. Carpenter.
Alton - T63	Wayne	7,600	14	29.0	-2.8	60	*12	-10	24	40	0.90	+0.51	0.40	9.0	3					Michael Hansen.
Alton - T64	Piute	6,180	7	34.4	-3.9	75	15	-4	25	50	1.09	+0.34	0.30	12.8	8	9	7	14	nw.	John W. Henry.
Alton - T65				32.7		73	14	-2	29	47	1.45		0.40	14.5	6	12	2	4		W. H. Hall.
Alton - T66	Grand	4,000	17	42.4	+1.4	71	5	10	20	38	1.75	+1.18	0.68	4.0	6					Henry Crouse.
Alton - T67	Iron	5,479	6	33.6	-5.8	72	14	-2	21	42	1.40	+1.20	0.72	13.1	7	10	10	10	w.	Weather Bureau.
Alton - T68	Iron	5,970	15	35.8	-3.0	66	*8</													

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



174
180

T Indicates a trace of precipitation. * Precipitation included in that of following day. † Precipitation incomplete. § Distribution not known.

U. S. DEPARTMENT OF AGRICULTURE.

451.65
DNu

REPORT FOR DECEMBER, 1906.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

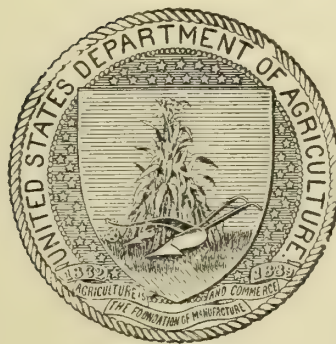
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

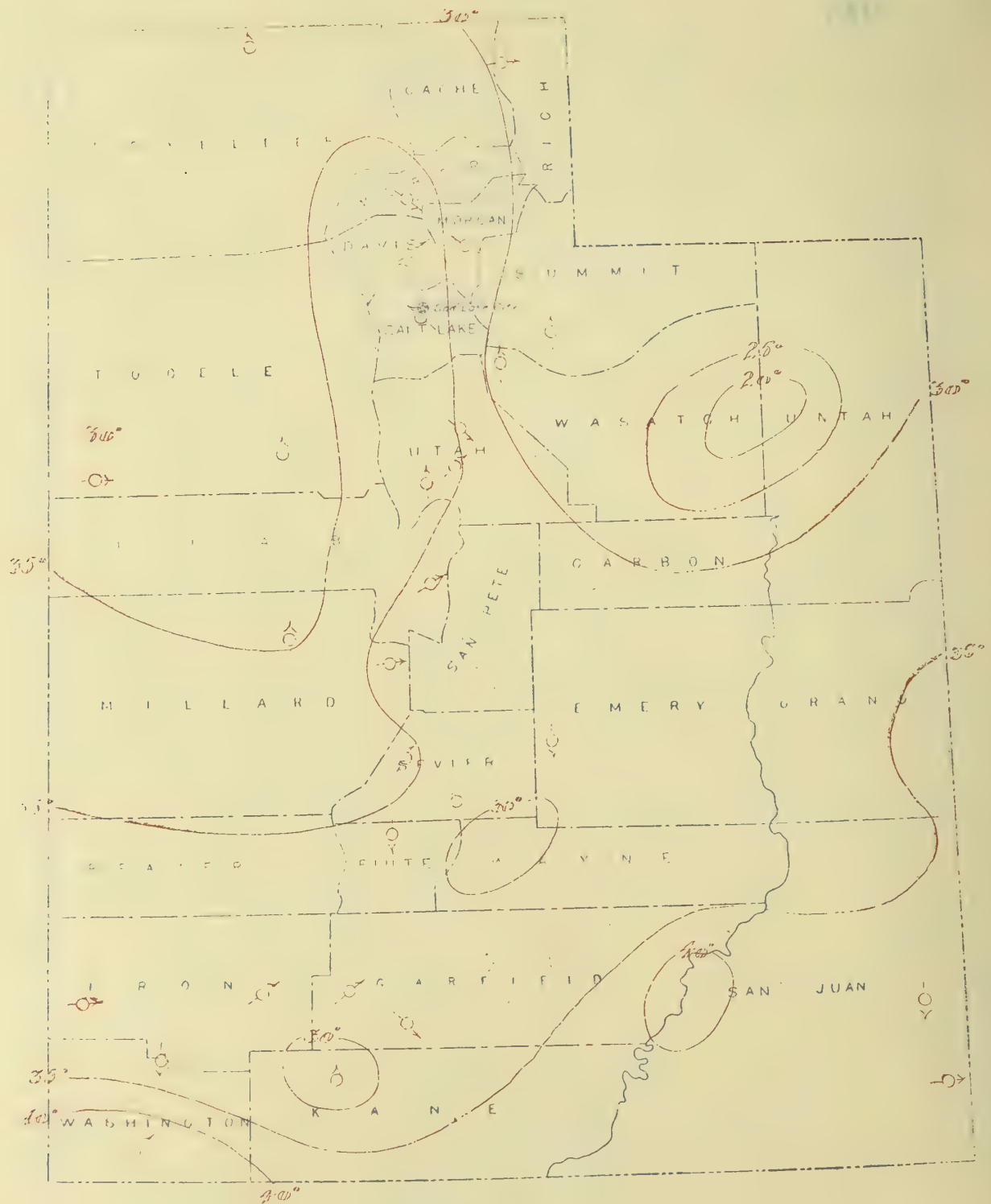
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JANUARY 22, 1907.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. VIII. SALT LAKE CITY, UTAH, DECEMBER, 1906. No. 14.

GENERAL SUMMARY.

The month of December was characterized by changeable weather. Cloudy skies and cold, stormy days prevailed during the first decade, when the snow and rainfall were above normal thruout the State. High barometric pressure, accompanied by high winds, was prevalent during the middle part of the month, but temperatures were higher, being generally above normal, and sunshine abundant. The melting snow caused high water in many streams, and fog was common. During the last decade several areas of high and low pressure followed each other in rapid succession, causing clear, cloudy and rainy weather. The month closed with temperatures unusually high for this time of the year, and precipitation above the normal.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 53 stations, was 33.3° , or 6.2° above the normal. The highest local monthly mean was 44.2° at St. George; the lowest was 18.7° at Ft. Duchesne. The highest temperature recorded was 76° at Rockville on the 3rd; the lowest was 12° below zero at Woodruff on the 15th, giving an absolute range for the section of 88° . The greatest daily range for any station was 52° at Pinto on the 7th. The highest temperatures of the month were generally recorded on the 11th, and the lowest on the 15th and 16th.

PRECIPITATION.

The average precipitation, determined from the reports of 69 stations, was 1.63 inches, or 0.63 inch above the normal. The excess increased from the middle to the northern and southern sections. The greatest monthly amount was 4.15 inches at Grayson, and the least was 0.15 inch at Trout Creek. The greatest precipitation in any 24 consecutive hours was 1.30 inches at Escalante on the 3rd. There was an average of 6 days with 0.01 inch or more of precipitation; 7 over the northern and southern portions, and 6 over the middle portion.

WIND.

The prevailing directions of the wind for the section were south and west. The total number of miles recorded at Salt Lake City

was 3,556; at Modena, 5,382; and at Grand Junction, Colo., 2,640. The maximum velocity at Salt Lake City was 30 miles per hour from the southwest on the 12th; at Modena, 36 miles from the west on the 12th; and at Grand Junction, Colo., 33 miles from the southwest on the 15th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 11; partly cloudy days, 9; cloudy days, 11. Determined from the records of automatic sunshine recorders, Salt Lake City had 29 per cent; Modena 56 per cent; and Grand Junction, Colo., 44 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 67 per cent, the lowest observed reading being 32 per cent on the 11th; at Modena, 82 per cent, the lowest observed reading being 52 per cent on the 7th, 11th and 23rd; and at Grand Junction, Colo., 74 per cent, the lowest observed reading being 46 per cent on the 16th.

DECEMBER SNOWFALL BULLETIN.

Tho the precipitation has been abnormally heavy thruout the State during the present winter, the visible snow supply at the close of December was generally light. Earlier in the winter, heavy snows were piled to great depths in the mountains and over many of the valleys of the State, but rains, together with high temperatures during the closing half of the month, caused the snow to disappear rapidly, and the valleys and some of the hill-sides were bare. However, in general, reports indicate that the tops and the sides of the mountains over the State were quite evenly covered fairly deep with heavy, moist snow, which was solidly packed under a strong crust several inches thick. In the absence of winds accompanying the snowstorms, there was very little drifting. The snow remaining in the mountains at the close of December was safely and well stored for preserving until late in the season. The ground was generally unfrozen, and was saturated to a depth of several feet, making a very good outlook for the water supply for the coming season.

OBSERVERS' REMARKS.

Alpine.—The weather was very bad for feeding stock, tho it was warmer than usual, and there was no snow on the ground.—T. B. Whitby.

Aneth.—December was a mild month, with no snow, tho there was considerable cloudiness.—Sophie Hubert.

Black Rock.—Moderate weather prevailed, with neither high nor low temperatures. There was less snow than usual.—Willard Burbank.

Castle Rock.—The first part of the month was cold and stormy, but mild weather prevailed during the latter part.—David Moore.

Corinne.—Most of the month was cloudy, with very little snow, tho the latter part was very pleasant.—A. C. Murphy.

Emery.—Mild weather characterized the fore part of the month, but the latter part was cold and stormier.—H. C. Wickman.

Escalante.—This was an unusually mild December.—Geo. H. Barney.

Government Creek.—The weather during the past month was more like April than December.—Walter James.

Green River.—The latter part of the month was cloudy and foggy, tho very little precipitation occurred.—F. P. Fullmer.

Heber.—December weather was mild and wet.—John Crook.

Henefer.—The weather was warmer than usual, and therefore the precipitation was principally in the form of rain. There was no snow on the ground New Year's Day.—Wm. Brewer.

Huntsville.—December was unusually mild and calm, tho there were several precipitation storms.—Lars Petersen.

Marion.—Very warm weather prevailed after the 23rd.—James Wooistenhulme.

Meadowville.—The weather during the month was very mild, driving the frost from the ground. There was no snow in the valley, and very little in the mountains.—J. S. Moffat.

Park City.—The snow was not all gone from the ground at any time during the month.—J. M. Martin.

Sunnyside.—The fog of the 25th-27th of December was the densest I have ever seen. A part of the time a light rain was precipitated from the fog.—Henry Cullum.

MISCELLANEOUS PHENOMENA.

Auroras.—Alpine, 22, 27.

Thunderstorms.—Morgan, 26; Sunnyside, 12.

Parhelia.—Marysvale, 14; Meadowville, 1, 13.

Rainbows.—Henefer, 27; Meadowville, 20; Parowan, 3.

Coronae, lunar.—Government Creek, 21, 23, 25, 28; Marysvale, 31.

Halos, solar.—Henefer, 17; Levan, 17; Salt Lake City, 24, 28; Theodore, 24, 30.

Hail.—Black Rock, 13; Henefer, 27; Marion, 29; Marysvale, 12; Pinto, 12; Tropic, 3.

Halos, lunar.—Government Creek, 22; Henefer, 24; Marysvale, 22, 25; Nephi, 22, 28, 31; Richfield, 22; Tropic, 27, 28.

Sleet.—Government Creek, 12; Henefer, 19; Huntsville, 4; Levan, 12; Marion, 10, 12; Meadowville, 4, 10; Minersville, 12; Nephi, 12; Pinto, 12; Salt Lake City, 12.

High winds.—Aneth, 1, 11, 12; Cedar City, 10-12; Emery, 18, 19; Enterprise, 10, 11; Garrison, 7-12, 30, 31; Government Creek, 10, 11, 30; Ibapah, 10, 11; Levan, 11; Marysvale, 10, 11; Moab, 13; Ogden, 1; Salt Lake City, 12; Tooele, 10-12.

Fog.—Aneth, 8; Emery, 27-29; Government Creek, 28, 29; Henefer, 28; Huntsville, 28; Ibapah, 28; Manti, 26; Marion, 15; Marysvale, 2, 17; Modena, 29; Park City, 3; Parowan, 2; Pinto, 2, 3; St. George, 7, 27; Salt Lake City, 3, 7, 24; Sunnyside, 25-27; Theodore, 26-30; Trout Creek, 28, 29; Vernal, 3, 7, 23, 27-31.

CORRECTIONS.

MAY.

Page 37: Mt. Nebo—Mean temperature recorded 56.3, should have been 56.8.

AUGUST.

Page 61: Pinto Mean temperature recorded 64.9, should have been 64.0.

OCTOBER.

Page 77: Corinne—Highest temperature recorded 95 on the

16th, should have been 95 on the 15th. Manti—Highest temperature recorded 80 on the *3rd, should have been 80 on the *2nd. Ogden No. 1—Mean temperature recorded 50.1, should have been 50.2. Provo—Highest temperature recorded 91 on the 2nd, should have been 91 on the 1st. St. George—Highest temperature recorded 95 on the 2nd, should have been 91 on the 1st.

COMPARATIVE DATA FOR DECEMBER.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1891	26.0	71	—19	1.42
1892	25.0	66	—19	1.27
1893	31.1	70	—19	1.30
1894	26.3	64	—17	1.94
1895	21.0	64	—24	0.78
1896	31.0	66	—3	0.46
1897	22.7	68	—19	1.16
1898	23.1	72	—17	0.63
1899	25.2	74	—26	0.95
1900	30.6	68	—27	0.14
1901	29.0	71	—18	0.81
1902	27.0	66	—25	0.89
1903	26.4	76	—26	0.37
1904	28.8	81	—25	0.74
1905	22.8	63	—32	0.62
1906	33.3	76	—12	1.63

MEAN TEMPERATURE AND TOTAL PRECIPITATION AT MANTI, SANPETE COUNTY, UTAH.

TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892.....	20.7	23.0	36.7	.....	52.8	68.0	71.7	68.0	63.2	.....	.....	18.6	.....
1893.....	20.7	23.0	36.7	.....	52.8	68.0	71.7	68.0	63.2	.....	.....	18.6	.....
1894.....	23.2	18.9	37.2	48.4	70.3	74.6	69.1	76.0	66.0	54.8	.....	30.0	.....
1895.....	17.6	24.5	39.3	54.1	68.4	71.5	74.8	72.0	62.7	51.5	33.7	20.8	48.6
1896.....	29.6	33.2	40.4	47.0	55.7	69.2	71.3	71.4	61.8	51.7	33.8	33.3	49.6
1897.....	25.2	25.4	31.0	48.0	62.3	64.4	69.8	72.4	62.2	.....	.....	.....	.....
1898.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.31
1899.....	26.4	25.6	39.2	49.8	53.2	65.0	73.2	66.6	64.2	46.2	40.0	22.4	47.6
1900.....	32.2	33.4	44.8	.....	60.0	68.2	73.2	.....	.....	48.9	42.1	31.1	.....
1901.....	28.3	30.6	36.4	45.2	57.6	62.0	72.5	70.2	56.0	50.6	40.8	29.2	48.6
1902.....	27.1	33.6	33.0	47.4	54.3	65.2	66.2	68.2	58.8	49.6	36.1	25.5	47.6
1903.....	27.8	16.2	35.5	44.4	50.8	63.6	72.6	69.3	58.2	49.0	38.4	26.0	40.6
1904.....	20.0	33.2	39.1	45.8	53.3	60.2	68.4	68.7	59.6	46.9	40.5	23.6	40.6
1905.....	24.8	28.6	41.2	45.4	49.9	63.4	68.4	69.1	58.8	44.4	36.6	20.8	46.6
1906.....	24.0	32.8	35.8	46.5	54.2	58.6	69.8	67.7	57.6	46.2	35.8	31.5	47.6
Mean.....	25.1	27.6	37.7	47.4	57.1	65.7	70.8	70.0	60.7	49.1	37.8	25.8	47.6

PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892.....	.....	.....	.....	.....	0.95	.....	0.32	0	0.15	.....	.....	0	.....
1893.....	0	.....	5.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1894.....	1.20	.....	.....	0.60	T.	0.15	0.28	0.17	1.91	0.20	.....	1.60	.....
1895.....	2.00	1.10	1.70	0.07	0.90	0.07	0.85	0.76	0.40	0.12	1.25	0.70	9
1896.....	0.15	0.10	0.60	0.95	0.16	T.	1.60	0.43	0.29	0.64	0.30	0.30	5
1897.....	2.90	2.40	2.05	0.10	T.	0.18	0.28	.....	2.85	.....	.....	.....	.....
1898.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.55
1899.....	1.90	2.00	.....	.....	.....	.....	1.02	1.13	T.	2.38	0.31	1.30	.....
1900.....	0.61	0.25	0.10	.....	.....	0	.....	.....	.....	0.60	0.80	0	.....
1901.....	0.02	2.50	1.00	0.80	1.00	0.15	0.22	1.23	0.08	1.05	0.50	0.55	9
1902.....	0.52	0.90	1.50	1.68	0.49	0.04	0.26	T.	0.83	0.40	1.38	0.86	8
1903.....	0.73	1.18	1.16	1.22	2.20	0.28	0.53	0.17	0.98	1.21	0.20	0.40	10
1904.....	1.10	1.13	1.71	0.93	2.03	0.40	0.61	0.37	0.48	0.94	0	1.50	11
1905.....	0.85	3.42	1.90	1.54	2.25	0.05	.....	0.20	3.69	0.54	2.99	1.10	17
1906.....	2.48	0.61	2.82	3.37	1.96	0.36	0.45	1.69	1.52	T.	1.73	1.53	18
Mean.....	1.11	1.42	1.80	1.07	1.68	0.15	0.70	0.55	1.05	0.73	0.95	0.80	11

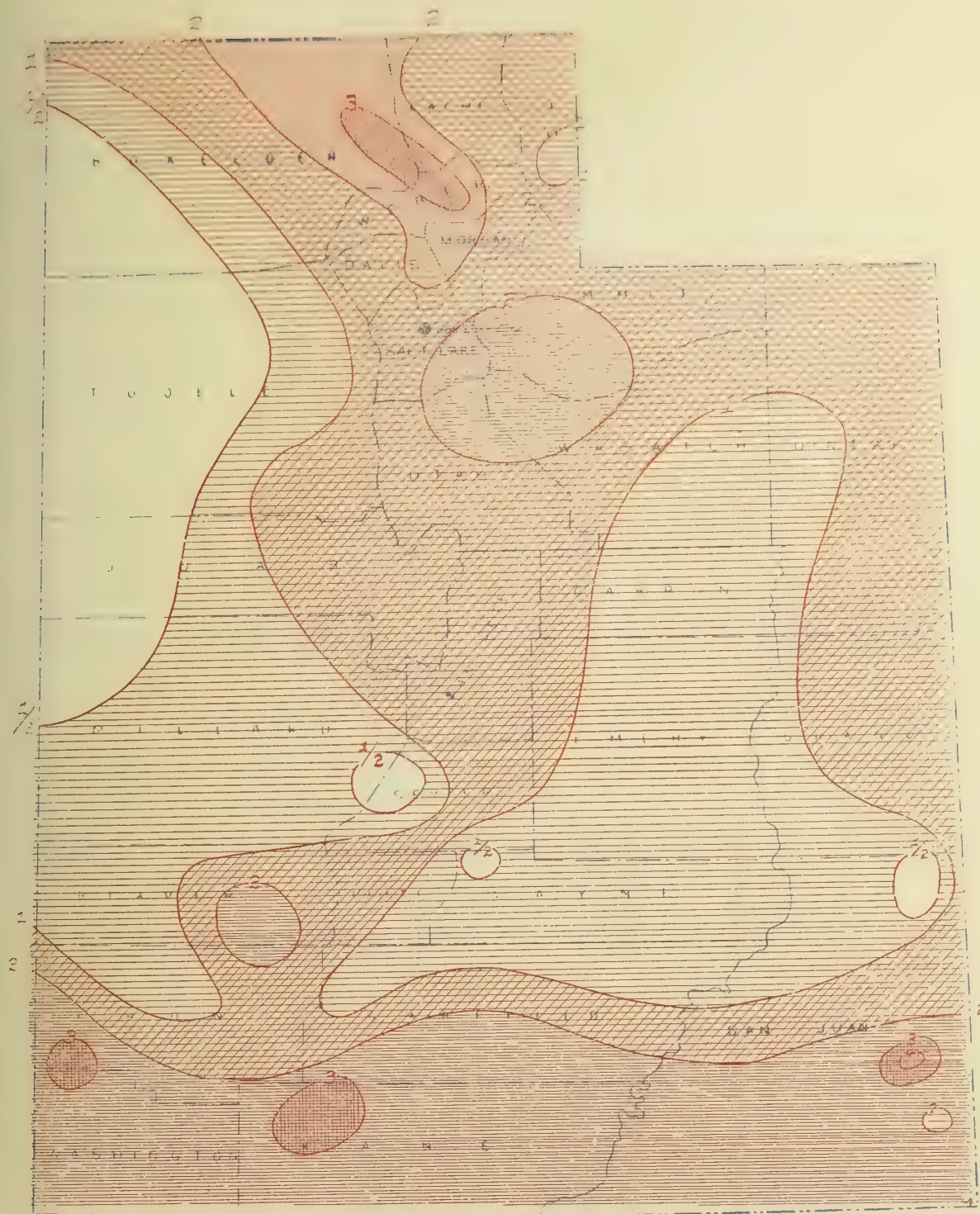
CLIMATOLOGICAL DATA, DECEMBER, 1906.

Sections and stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
NORTHERN.																					
Alpine	Utah	4,900	10								6.65			53.0	5	13	1	12		W. W. Smith.	
Boxelder	Utah	4,210	30	34.8	+6.0	59	21	15	15	36	2.57	+1.50	1.10	3.0	6	4	18	9		T. B. Whitby.	
Davis	Utah	4,207	6	37.0	+7.2	55	12	15	15	20	2.39	+0.28	0.67	10.5	8	10	3	18	SW.	Agent So. Pacific R. R.	
Uinta	Utah	5,000	18	18.7	-0.0	41	5	8	15	28	0.60	+0.10	0.40	6.0	3	13	5	11		Charles Boylin.	
Wasatch	Utah	5,000	13	29.2	+7.0	48	*9	6	40	2.45	+0.93	0.75	7.2	13	8	10	13	8		Post Surgeon.	
Summit	Utah	5,301	7	30.4	+7.4	51	11	5	15	41	1.80	+0.58	0.48	5.8	10	11	10	10	nw.	John Crook.	
Weber	Utah	5,100	11								3.48	+1.88	0.91	12.0	9	8	15	8		William Brewer.	
Boxelder	Utah	4,230	28								1.21	+0.52	0.34	3.0	6	7	13	11	W.	Lars Peterson.	
Cache	Utah	4,507	15	33.6	+8.3	55	11	10	1	22	1.99	+1.01	0.61	6.4	11					Agent So. Pacific Co.	
Boxelder	Utah		2																	Agricultural College.	
Rich	Utah	6,200	7	29.8	+5.0	50	*11	2	1	31	1.55	+0.64	0.70	4.0	6	10	4	17	W.	Agent So. Pacific R. R.	
Che	Utah	4,848	11								1.57	+0.50	0.52		10					J. S. Moffat.	
Morgan	Utah	5,880	3	32.5		57	11	5	15	39	1.81		0.46	6.5	10	11	16	4	se.	Fred Yeates.	
Weber	Utah	4,310	5	36.3	+8.2	51	*11	11	15	22	2.63	+1.20	0.78	6.3	7	14	8	9	nw.	T. R. G. Welch.	
Weber	Utah	4,310	30	37.0	+5.0	55	11	17	14		1.98	+0.36		4.0	7	5	11	15	s.	Enoch Farr.	
Summit	Utah	7,800	9	29.0	+0.9	54	11	3	14	31	2.12	+0.59	0.70	6.0	6	18	1	12		W. H. Chevers.	
Bannock	Idaho	4,483	0																	J. M. Martin.	
Rich	Idaho		2								1.21		0.85		5	16	8	7	sw.	Weather Bureau.	
Salt Lake	Utah		3	36.0		60	12	14	15	28	1.15		0.41	0.5	9					Wm. Rex.	
Salt Lake	Utah	4,366	33	38.4	+5.6	61	11	17	15	25	1.00	-0.58	0.37	4.5	9	5	9	17	se.	Francis W. Bailey.	
Boxelder	Utah	4,360	16	31.0	+5.6	58	3	2	15	46	2.47	+1.46	0.65		8	2	12	17	s.	Section Center.	
Wasatch	Utah		2																	Joseph Robbins.	
Wasatch	Utah	5,507		20.6		47	20	8	16	40	0.70		0.20	6.0	6	13	6	12		A. B. Larson.	
Tooele	Utah	4,900	10	37.3	+7.7	60	11	15	15	21	0.75	-0.15	0.46		5	11	7	13		M. M. Smith.	
Uinta	Utah		11	27.5	+9.5	48	29	1	*16	30	1.72	+1.24	0.75	11.5	5	17	0	14		I. J. Elkington.	
Rich	Utah	6,500	9	25.2	+5.4	48	7	12	15	43	0.81	+0.06	0.33	7.9	4					Joab Collier.	
Averages				31.1	+6.1						1.81	+0.85		6.4	7	10	9	12	s.	C. G. Youngberg.	
MIDDLE.																					
Rock	Utah	4,872	6	35.0	+8.1	63	*11	8	2	35	0.97	+0.59	0.37	3.0	6	13	7	11		Willard Burbank.	
Secret	Utah	5,500	7	33.3	+9.4	57	23	8	1	35	1.88	+1.78	0.68		9	12	10	3		James Jeffs.	
Millard	Utah	4,541	12	34.0	+9.0	65	11	5	1	41	0.94	+0.45	0.40	3.0	5	7	9	15	s.	S. W. Western.	
Emery	Utah	6,260	6	32.6	+6.5	65	*27	9	*14	42	1.70	+1.60	0.60	11.0	4	0	2	29	n.	H. C. Wickman.	
Emery	Utah	5,100	16	37.4	+7.8	60	10	11	1	36	0.63	-0.42	0.38		11					J. J. Starley.	
Millard	Utah		3	35.4		64	7	12	*1	43	0.58		0.25		4	16	7	8	s.	E. M. Smith.	
Tooele	Utah	5,277	6	34.0	+6.0	55	11	6	15	25	1.28	+0.65	0.45	3.5	7	9	12	10	s.	Walter James.	
Mesa	Utah	4,608	15	36.4	+8.6	61	12	17	18	29	0.74	+0.33	0.33	0.5	6	11	9	11	nw.	Weather Bureau.	
Emery	Utah	4,680	9																	F. P. Fullmer.	
Tooele	Utah	7,500	3	26.8		49	23	1	1	31	0.22		0.13	1.2	3	10	11	10	W.	J. S. Lawton.	
Sanpete	Utah		2																	R. H. Spencer.	
Juab	Utah	5,010	16	32.5	+7.6	59	11	6	15	28	1.71	+0.05	0.83	5.6	6	12	7	12	sw.	William Brown.	
Sanpete	Utah	5,575	12	31.5	+6.1	60	11	2	15	37	1.53	+0.79	0.65	1.0	5	1	23	3		W. M. Harmon.	
Utah	Utah	4,950	5	37.3	+10.6	62	11	9	15	28	1.00	+0.58	0.45	1.0	7	8	10	13	s.	D. C. Walkey.	
Sanpete	Utah	5,859	14	33.3	+6.3	59	10	4	14	33	1.28	+0.03	0.50	9.0	3	9	21	1		Web Greene.	
Juab	Utah		2								1.36		0.48	2.5	6	18	6	7		A. Madsen.	
Millard	Utah		1	35.8		61	11	9	16	30	1.64		0.64		7	10	10	9		J. Finlinson.	
Utah	Utah	4,637	2								1.44		0.71	9.0	9	4	16	11	sw.	D. L. Coombs.	
Utah	Utah	4,532	14	35.0	+6.3	58	10	9	15	25	2.75	+1.34	1.10	9.0	6	7	8	16	nw.	W. K. Henry.	
Sevier	Utah	5,350	14	36.6	+8.4	66	11	15	*1	42	0.41	-0.27	0.24		2	18	5	7	sw.	S. Christensen.	
Millard	Utah	5,200	11	34.7	+9.3	63	11	2	15	40	1.44	+0.46	0.35	2.0	9	8	9	14	W.	Thomas Memmott.	
Utah	Utah	7,474	14																	Agent Rio Grande R. R.	
Utah	Utah	5,075	14	34.8	+9.6	58	4	4	14	49	1.50	+0.07	0.90	9.0	3	12	8	11		Agt. Rio Grande W. R. R.	
Juab	Utah	5,075	1	34.0		60	11	6	15	33	0.15		0.15	1.5	1	12	17	2		Mrs. W. A. Edwards.	
Utah	Utah		1																	W. A. Knight.	
Carbon	Utah	5,540	7																	E. E. Branch.	
Averages				34.1	+7.7						1.19	+0.26		5.2	6	10	10	11	s-sw		
SOUTHERN.																					
San Juan	Utah	4,800	6	39.0	+8.6	62	9	14	*16	35	1.08	+0.81	0.45	0.0	5	15	9	7	W.	Miss S. Hubert.	
Beaver	Utah		2																	A. B. Anderson.	
Iron	Utah		1	35.8		58	*11	8	15	31	1.31		0.51	3.4	7	8	15	8		J. M. Foster.	
Garfield	Utah		5																	H. J. McCullough.	
Garfield	Utah	5,700	6	32.6		53	21	10	15	29	2.99		1.30	0.0	6	18	1	12		Geo. H. Barney.	
Washington	Utah		2	41.6		68	11	23	*15	34										Joseph T. Atkin.	
Beaver	Utah	7,318	12	31.0	-1.4	55	22	0	15	45	0.95	+0.62								Prof. Albert Warren.	
Wayne	Utah	4,000	11																	J. C. White.	
San Juan	Utah		1	36.8		58	1	12	16	28	4.15		1.00	9.0	7	17	2	12	n.	Joseph D. Lyman.	
Garfield	Utah	3,000	7	42.2	+6.7	69	4	26	*16	30	0.76	+0.67	0.45		3	25	4	2		F. W. Gibbons.	
Kane	Utah	4,925	6																	E. M. Ford.	
San Juan	Utah	7,000	6	33.0	+6.9	55	11	8	15	32	0.21	+0.21	0.20	2.0	3					Mrs. G. W. Carpenter.	
Wayne	Utah	7,000	14	25.6	+4.2	40	20	6	15	36	0.45	+0.21	0.20	2.0	3					Michael Hansen.	
Piute	Utah	6,180	7	33.2	+6.5	66	23	8	15	50	1.45	+1.06	0.35	7.6	13	11	12	8	n.	John W. Henry.	
Grand	Utah		17	38.0	+7.4	58	*11	16	*16	29	1.57	+0.90	0.57		9	13	8	10		W. H. Hall.	
Iron	Utah	5,479	6	31.4	+3.0	55	23	6	15	34	2.13	+1.85	0.56	3.1	8	6	9	16	W.	Henry Crouse.	
Iron	Utah	5,970	15	32.0	+3.8	58	11	4	15	31	1.18	+0.37	0.35	8.7	8	10	9	12	sw.	Weather Bureau.	
Washington	Utah	5,907	9	30.4	+3.6	56	24	2	14	52	2.85	+2.46	1.02	3.0	9	9	9	13	n.	James Connell.	
Sevier	Utah	7,600	4	31.2	+8.2	54	23	2	15	42	1.27	+0.18	0.26	8.8	11	11	12	8	s.	J. H. Harrison.	
Kane	Utah	6,700	5	29.7	+2.9																

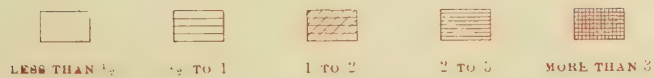
MAXIMUM AND MINIMUM TEMPERATURES, DECEMBER, 1906.

Sections and Stations		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.
NORTHERN.																																	
Alta near:																																	
Cortez																																	
Farmington																																	
Hatch																																	
Hobbs																																	
Huerfano																																	
Kenton																																	
Lecan																																	
Lucas																																	
Meadowville																																	
Moguan																																	
Ogden No. 1																																	
Park City																																	
Pocatello, Idaho																																	
Sage Lake																																	
Salt Lake City																																	
Snowville																																	
Strawberry Valley																																	
Tipton																																	
Tule																																	
Verbal near																																	
Woodruff																																	
MIDDLE.																																	
Black Rock																																	
Cachita Dale																																	
Deseret																																	
Emery																																	
Fillmore																																	
Garrison																																	
Government Creek																																	
Hite																																	
Green River																																	
Hatch near																																	
Levan																																	
Maui																																	
Mount Nemo																																	
Mountain Pleasant																																	
Oak City																																	
Provo																																	
Richfield																																	
Solider Summit																																	
Thistle																																	
Trout Creek																																	
Utah Lake																																	
Wellington																																	
SOUTHERN.																																	
Aneth																																	
Braver																																	
Cedar City																																	
Coyote																																	
Escalante																																	
Experiment Farm																																	
Frisco																																	
Giles																																	
Grayson																																	
Hite																																	
Kaibab																																	
La Sal																																	
Loa																																	
Marysvalle near																																	
Milford																																	
Moab																																	
Moenab																																	
Parowan																																	
Pinto																																	
Pitkin																																	
Platan																																	
Peach																																	
Rockville																																	
St. George																																	
Tropic																																	

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



Day of month

‡ Distribution unknown.

581.00
DNE
U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1906

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

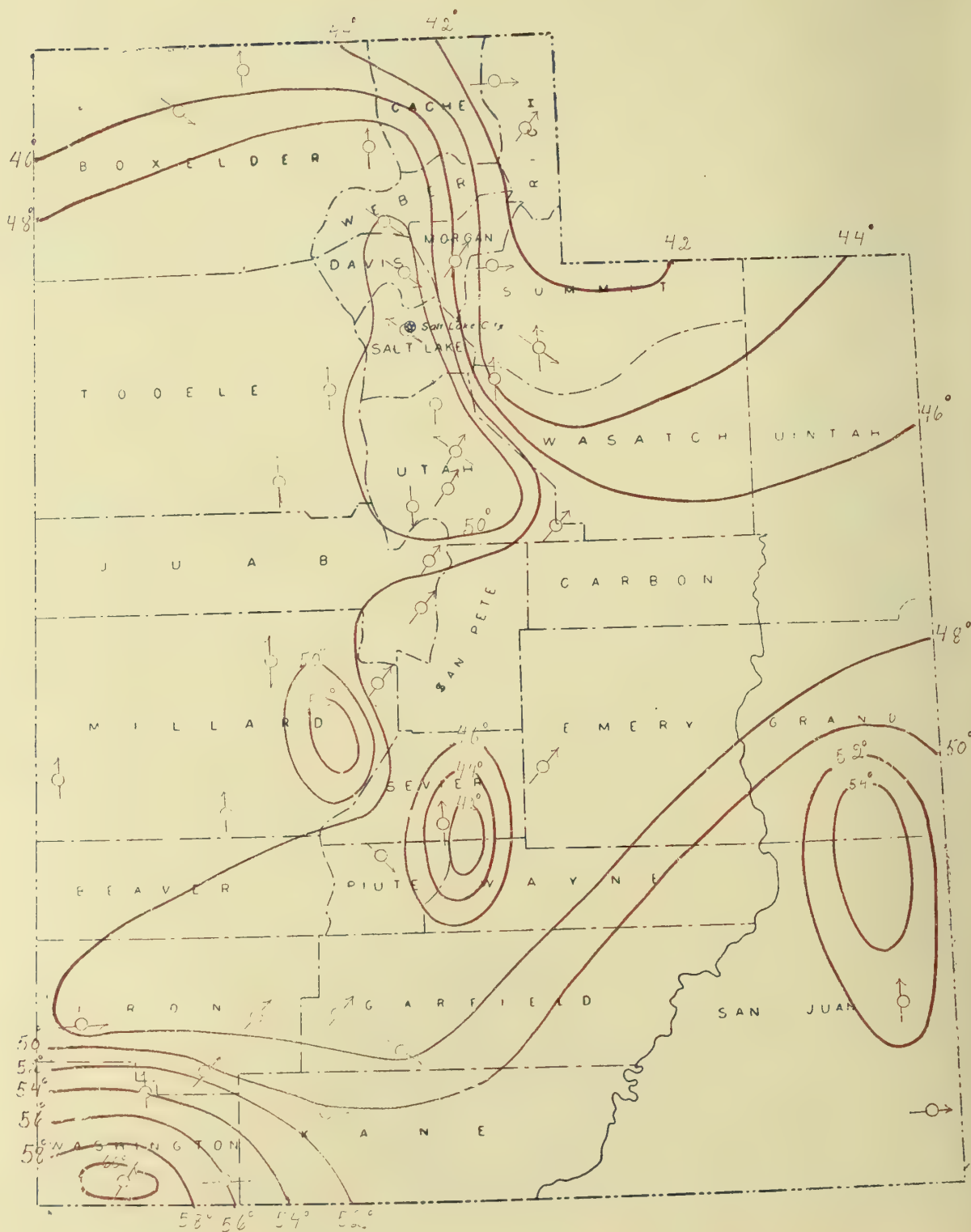
SECTION DIRECTOR.



SALT LAKE CITY, UTAH:
WEATHER BUREAU OFFICE.

MAY 10, 1907

MONTHLY MEAN ISOTHERMS AND WINDS FOR THE YEAR 1906.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

III. SALT LAKE CITY, UTAH, ANNUAL SUMMARY, 1906 NO. 15

CLIMATOLOGY OF THE YEAR.

January: Generally calm, cloudy weather prevailed, considerable foginess in the valley districts. The cold-weather occurred quite generally during the first two weeks, the coldest locality being the Strawberry Valley; and the warmest weather occurred in two brief periods: about the 10th, and near the close of the month, the mildest districts being Sevier and Washington Counties. The snow storms were fairly heavy and were well distributed during the middle of the month. Except a brief period at the beginning, the remainder of the month was without precipitation. The snowfall was heaviest in Rich and adjacent counties, and lightest in Garfield County.

February: This was probably the cloudiest month on record, though during the first decade this characteristic was less pronounced, and numerous fogs occurred. Temperatures were decidedly below normal during the foggy weather, but considerably higher during the latter part of the month. The coldest districts were in the Uinta Mountains, and the warmest in the Virgin River valley. Storms of rain, sleet, and snow with some high winds occurred frequently during the middle and last decades. The mountainous regions received the most precipitation, the amounts being almost insurmountable elsewhere.

March: The amount of cloudiness was abnormally large during the month, reducing the daily temperature ranges considerably, otherwise no unusual thermometric features were noted. As usual, the southern valleys of Washington County were the warmest region of the state, and the coldest districts were in the Strawberry Valley. The precipitation was unusually heavy, exceeding all previous records. The area of greatest amount covered the southwestern counties and the mountainous regions to the northeastward; elsewhere the amounts were considerably less. During the early part of the month the precipitation was principally snow, but thereafter it was copiously mixed with rain.

April: While there were numerous short periods of warm, spring-like weather during the month, the intervening cold, dry weather caused general complaint of backward conditions. Washington County and the valley of the Colorado River were the warmest regions, and Rich and Wasatch Counties the coldest. Well distributed rain and snow storms occurred frequently throughout the month, the wettest area being on the western slope of the middle mountain districts; and the driest districts being in the lower Colorado River valley, and on the northwest of Great Salt Lake.

May: The weather averaged abnormally cool, windy and the temperature deficiency, and the precipitation excess increased rapidly to the southward. There were numerous storms of moderate severity. Points on the Colorado River, and Washington County averaged warmest; and points in Sevier and Boxelder Counties were coldest. The precipitation was heaviest at the beginning, the middle, and the close of the month. The amount was unusually large over the eastern counties, but diminished to very small quantities in the southern tier of counties.

June: Cool, cloudy weather with some frost prevailed during the first decade, but this was followed by fair, and much warmer weather in the second decade. Killing frost formed in many localities during the closing decade. The regions of highest temperature included the lower Colorado River valley, and Washington County; and the regions of lowest temperature were Rich, Summit, and Wasatch counties. The precipitation was confined principally to the north-central districts, with very little or none over the greater portion of the state. The stormy days occurred principally during the first and last decades. Snow was common in the mountains.

July: Following a brief period of fair, cool weather at the beginning of the month, abnormal cloudiness and unusual sultriness prevailed. The valleys of Washington County averaged warmest, and the Wasatch Mountain districts coldest. The precipitation was considerably greater over the middle and southern portions of the state, with very little in the northern counties. The precipitation days were quite evenly distributed throughout the month. A new record of thunder-storm frequency was established at a large number of stations, local thunder-storms occurring almost daily in some districts.

August: The cool weather at the beginning of the month was followed by weather conditions that were much more seasonable, until the cool, pleasant weather which characterized the closing days of the month. The valley of the Colorado averaged warmest, and the higher districts of Salt Lake County averaged coolest. Thunder-showers were general during the first few days, and heavy rains and damaging floods were general over the state about the middle of the month, the monthly state average precipitation being nearly twice the greatest previous average for August. The southwestern, and north-central mountain districts received the heaviest precipitation, while the southeastern part of the state received least.

September: The characteristic of the month was a notable deficiency in the average temperature and cloudiness. The highest temperature records of the month were made almost simultaneously over the state about the 6th, the warmest sections being the Colorado, and the Virgin River valleys. The lowest temperatures occurred with unimportant exceptions, about the 17th, the coldest weather being in the Wasatch Mountains. The precipitation was scattered throughout the month, the distribution over the state being quite even. Considerable snow fell in the mountains.

October: Unusually favorable weather characterized the month generally. The warmest weather occurred in Washington County, and the coldest in the Wasatch Mountains. Dry weather prevailed in nearly all sections until the closing half of the month when rain and snow were general. The greatest amount of precipitation occurred in the mountains to the southwest of Great Salt Lake, while several stations in the middle and southern sections reported none.

Probably the most destructive wind-storm that ever visited the Salt Lake valley occurred Saturday and Sunday, October 20th and 21st. From its inception, at ten o'clock Saturday night, the unsteady northeast storm-wind continued at a destructive rate until early Sunday afternoon, extreme velocities of a mile a minute recurring at frequent intervals.

The damage by the tempest was mostly done in the three hours just preceding daylight, during which time momentary velocities were evidently much greater than a mile-a-minute rate. Many hundreds of gigantic shade trees, carrying tons of dirt, were prostrated across the streets amid tangles of live electric wires and broken poles. Thousands of window panes were broken, and dozens of large buildings were unroofed, while many smaller ones were tumbled over or collapsed. The statue surmounting the City and County build-

ing was bent far to the westward, and a lower statue was dashed to the pavement. Previous to the suspension of traffic an entire freight train, except the engine, was blown from the track near Centerville, while several lone cars were upset in other districts. Many miles of telegraph and telephone poles were broken off at the ground, and the inter-urban districts were greatly devastated. In Ogden and the smaller towns along the Lake, more than half of the buildings were damaged and the streets were strewn with wreckage. Swaths of greater demolition were plainly marked from the canyon outlets toward the Lake.

The storm was felt over all the state, but in greatly diminished force outside of Salt Lake Valley, the principal features being the cold and the snow. Herds of unprotected stock on the bleak ranges were driven away by the blizzard, many being scattered and lost. Considering the property destruction and the general severity of the storm, casualties and human suffering were remarkably uncommon.

November: The month averaged unusually cold, temperature being especially low from the 18th to the 21st. The higher portions of Wasatch County averaged coldest. The monthly maximum temperature occurred generally from the 10th to the 15th, the warmest district being the southern valleys of Washington County. Precipitation was above normal everywhere, occurring principally in frequent snow storms during the last half of the month. The most fell in parts of San Juan County and the least fell in parts of Sanpete and Boxelder counties. High winds prevailed over the central part of the state during the severest storms, doing slight scattered damage. The maximum velocity at Salt Lake City was the highest ever recorded.

December: Changeable weather prevailed with temperature and precipitation above normal, particularly during the closing half. The valleys of lower Colorado, and the Virgin rivers were the warmest, while the weather averaged coldest in the Uinta Mountains. Precipitation was fairly well distributed thruout the month, being generally greatest in the mountain districts and across the southern part of the state. The least fell over the western and northwestern portions.

SUMMARY.

Temperature: The mean temperature of the state was 48.2° , or normal, the northern portion averaging 0.8° below, the middle portion 0.9° above, and the southern portion about normal. The highest annual mean for any reporting station was 60.0° at St. George; the lowest was 41.1° at Loa. The highest temperature recorded during the year was 110° at St. George, July 6th; the lowest was 39° below zero at Strawberry Valley, January 9th, giving an absolute range of 149° . The maximum temperatures occurred principally during July, and the minimum temperatures in January.

Precipitation: The average precipitation for the state was 19.59 inches, or 7.30 inches above normal; 7.69, 7.22, and 6.37 inches over the northern, middle, and southern portions respectively. The greatest annual precipitation recorded was 28.61 inches at Ogden, No. 1, (north side); the least 9.17 inches at Ft. Duchesne. There was an average of 75 days with 0.01 inch or more of precipitation.

Sunshine and Cloudiness: There was an average of 164 clear, 92 partly cloudy, and 109 cloudy days. Determined by automatic sunshine recorders, Salt Lake City had 52 per cent and Modena 68 per cent of the possible amount of sunshine.

Wind: The prevailing wind was from the southwest. The total number of miles recorded at Salt Lake City was 51,680, and at Modena 89,156. The maximum velocity at Salt Lake City was 66 miles from the northwest on November 15th; and at Modena 60 miles from the southwest on February 28th, March 12th, and June 5th.

Relative Humidity: The mean annual relative humidity at Salt Lake City was 56 per cent, the lowest observed being

11 per cent on May 19th; and at Modena 57 per cent, the lowest observed reading being 9 per cent on April 19th.

Index: Snow in Mountains, published in January, February, and March; Fogs, February; Heber, temperature, precipitation data, May; Alpine, data, June; Millville, July; Huntsville, data, August; Aneth, data, November; Manti, data, December.

CORRECTIONS.

Annual Summary for Year 1905.

September: Castle Dale, mean temperature recorded 50.6° , should be 56.6° . Green River: Temperature should be omitted. March: Provo, mean temperature recorded 44.4° , should be 44.0° . May: Coyoto, mean temperature recorded 44.2° , should be 44.4° . June: Provo, temperature recorded 66.0° , should be omitted. January: Richfield mean temperature recorded 29.4° , should be omitted. April: Strawberry Valley, precipitation (incomplete) recorded 1.01, should be omitted. March: Oak City precipitation (incomplete) recorded 1.83, should be omitted. Kanab, precipitation (incomplete) recorded 1.20, should be omitted. December: Mount Nebo, precipitation recorded 0.42, should be 0.32.

TABLE OF KILLING FROSTS

Stations	Last in Spring	First in Autumn
Alpine	May 31	
Alta (near)		
Aneth	April 14	
Beaver	May 31	
Black Rock	May 17	
Castle Dale	June 24	
Castle Rock	June 9	
Cedar City	May 28	
Corinne	May 16	
Coyoto	July 1	
Deseret	June 8	
Emery	June 6	
Enterprise (near)	June 5	
Escalante	May 29	
Farmington	May 17	
Fillmore	May 17	
Fort Duchesne	June 28	
Frisco		
Garrison	June 23	
Giles	April 5	
Government Creek	June 7	
Grayson	May 2	
Green River	April 22	
Heber	June 23	
Henefer	June 23	
Hite	April 30	
Huntsville	June 20	
Ibapah	June 24	
Kanab	May 31	
Kelton	May 25	
La Sal	May 31	
Levan	June 7	
Loa	June 24	
Logan	April 25	
Lucin	May 29	
Manti	May 17	
Marion	June 23	
Marysville	May 31	
Meadowville	May 17	
Moab		
Modena	May 27	
Morgan	May 17	
Mt. Nebo	June 8	
Mt. Pleasant		
Oak City	May 17	
Ogden	April 13	
Parowan	June 6	
Payson		
Pinto	June 25	
Plateau	June 24	
Provo	June 29	
Richfield	May 17	
Ranch	June 29	
Randolph		
Rockville	April 28	
Saltair Beach	April 13	
St. George	April 5	
Salt Lake City	April 5	
Scipio	June 24	
Snowville	June 20	
Soldier Summit	June 28	
Strawberry Valley		
Theodore	May 31	
Thistle	June 4	
Tooele	May 17	
Tropic	May 29	
Trout Creek	Jan. 7	
Utah Lake P. Station	May 17	
Vernal (near)	May 24	
Wellington	June 5	

NOTE—At stations where no frost record was kept, the date of the last temperature in spring and the first freezing temperature of autumn have been omitted. Such dates have been distinguished from the regular frost report by the use of

Climatological Data for Year 1906

STATIONS.	COUNTIES.	Elevation, feet	Length of record, years	Temperature in Degrees Fahrenheit					Precipitation, in Inches					Sky				Prevailing Direction of Wind		
				Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest Monthly	Month	Least Monthly	Month	Total Snowfall	No. of Rainy Days	No. of Clear Days		No. of Partly Cloudy Days	No. of Cloudy Days
NORTHERN.																				
Alton (near)	Utah	4,900	10						10						*29.0	*64	*81	*45	*71	
Alton (near)	Salt Lake	9,265	2						12						*29.1	*57	*128	*40	*61	
Alton (near)	Cache	6,244	3						3	20.37	4.24	May	0.14	Oct.	108.7	105	162	92	111	
Alton (near)	Summit	4,210	36	49.2	106	July 22	-10	Jan. 8	36	22.35	3.85	Aug.	0.10	July	37.5	61	*144	*106	*104	s.
Alton (near)	Boxelder	4,267	6		94	July 24	3	Jan. 12	6						*102.5	*60	*182	*43	*107	n.w.
Alton (near)	Davis	5,000	18	44.1	95	June 12	-18	Jan. 3	18	9.17	1.83	Nov.	0.10	June	36.5	46	177	124	61	
Alton (near)	Uinta									14.17	2.80	May	0.17	July	*6.5	48				
Alton (near)	Tooele	5,606	13	44.0	94	July 20	-16	Jan. 9	13						*43.7	*97	*166	*81	*106	s.
Alton (near)	Wasatch	5,201	7	44.0	93	Aug. 9	-21	Jan. 9	7	23.37	3.78	May	0.16	Oct.	75.0	111	169	90	106	w.
Alton (near)	Weber	5,100	11						11	26.25	3.56	May	0.09	July	69.0	72	165	104	96	
Alton (near)	Boxelder	4,230	28				-4	Jan. 2	28						*25.5	*31	*91	*128	*85	n.w.
Alton (near)	Cache	4,507	15		97	July 21	-15	Jan. 8	15	26.40	0.05	May	0.60	Oct.	*6.4	80				
Alton (near)	Boxelder	4,504	...												*23.5	*5	*83	*16	*24	
Alton (near)	Summit		...							26.28	4.69	Mar.	0.09	Oct.	*104.5	90	*101	*74	*181	s-n-w
Alton (near)	Rich	6,200	7	41.3	91	July 22	-22	Mar. 16	7	25.05	5.45	Jan.	0.75	Nov.	84.5	73	185	50	130	w.
Alton (near)	Cache	4,848	11						11	22.12	4.64	May	0.13	July	...	90				
Alton (near)	Morgan	5,080	3	44.5	90	July 20	-20	Jan. 9	3	24.36	4.57	Aug.	0.11	July	*71.9	97	*164	*109	*71	sw.
Alton (near)	Weber	4,310	5	49.7	96	July 21	-1	Jan. 9	5	28.61	5.63	May	T.	Oct.	75.1	74	*198	*71	*88	n.w.
Alton (near)	Weber	4,310	36	51.2	98	Aug. 10	2	Jan. 8	36	22.86	4.68	May	0.20	...	55.5	60	156	49	160	...
Alton (near)	Summit	7,800	9						9						*89.3	*21	*35	*5	*19	
Alton (near)	Rich	6,442	3						3	13.85	2.19	Aug.	0.30	Feb.	*48.0	76	190	60	115	sw.
Alton (near)	Salt Lake	4,058	3	49.8	92	July 21	-1	Jan. 9	3	19.57	3.57	Apr.	T.	July	*43.3	77				
Alton (near)	Salt Lake	4,366	32	51.1	96	July 21	-7	Jan. 1	32	21.28	3.17	May	0.23	July	69.7	104	140	87	138	se.
Alton (near)	Boxelder	4,360	16	44.3	98	July 22	-13	Jan. 8	16	17.04	4.03	Mar.	0.27	Sep.	*14.0	61	*118	*133	*73	s.
Alton (near)	Wasatch		...				-29	Jan. 9	...						*85.0	*50	*70	*18	*39	
Alton (near)	Wasatch	5,507	1		92	June 12			1						*37.0	*54	*99	*94	*76	
Alton (near)	Tooele	4,900	10	50.0	97	July 22	-7	Jan. 1	10	20.31	3.26	Mar.	0.54	Oct.	...	82	187	69	109	s.
Alton (near)	Uinta	5,050	11	45.1	94	June 12	-10	Jan. 22	11	14.76	2.77	Nov.	0.25	June	*42.6	30	222	56	97	
Alton (near)	Rich	6,500	9						9						*21.9	*8	*15	*8	*6	
Averages				46.8						20.96					67.9	79	175	78	112	s.
MIDDLE.																				
Alton (near)	Sevier	4,872	6		100	July 22			6	16.51	2.98	Sep.	0.03	June	*83.5	65				
Alton (near)	Millard	5,500	7		93	July 21	-15	Jan. 9	7						*19.2	*52	*123	*67	*50	s.
Alton (near)	Emery	5,500	7		93	July 21	-15	Jan. 9	7						57	*174	*114	*15		
Alton (near)	Carbon	6,210	2						2						*41.0	*16	*57	*19	*44	
Alton (near)	Millard	4,541	12	48.8	98	July 21	-7	Jan. 3	12	10.77	2.10	Mar.	T.	Oct.	*28.0	55	178	56	131	n-s
Alton (near)	Emery	6,260	6	47.3	95	Aug. 3	4	Nov. 21	6	13.78	2.07	Apr.	T.	June	*52.0	31	70	76	219	sw
Alton (near)	Millard	5,100	16	52.2	105	Aug. 10	-1	Jan. 3	16	21.28	4.38	Apr.	0.15	Oct.	...	86				
Alton (near)	Millard		3		97	July 21	-5	Nov. 29	3						*12.0	*41	*152	*69	*106	s.
Alton (near)	Tooele	5,277	6	48.0	95	July 20	-1	Nov. 19	6	18.09	3.63	Apr.	0.25	Oct.	60.5	73	176	76	113	s.
Alton (near)	Emery	4,080	9						9						*6	*140	*6	*34		
Alton (near)	Tooele	7,500	4		95	July 21	-17	Jan. 9	4						*23.4	*23	*94	*118	*29	
Alton (near)	Tooele	7,500	...						...						*74.8	*19	*45	*20	*26	
Alton (near)	Sanpete	5,932	3						3						*37	...				
Alton (near)	Juab	5,010	16	47.0	93	July 22	-6	Jan. 9	16	23.84	5.69	Mar.	0.38	Oct.	77.0	89	187	78	100	sw.
Alton (near)	Sanpete	5,575	12	46.7	93	July 22	-7	Jan. 3	12	18.52	3.37	Apr.	T.	Oct.	*9.0	81	*10	*223	*31	
Alton (near)	Utah	4,650	5	51.1	96	July 24	-10	Jan. 9	5	13.95	2.86	Mar.	0.05	Oct.	*21.0	93	*149	*119	*96	n.
Alton (near)	Pleasant	5,859	14		95	July 21	0	Jan. 2	14						*32.0	*35	*134	*90	*41	
Alton (near)	Juab	6,059	3						3	22.34	4.29	Mar.	T.	Oct.	*47.0	98	*181	*81	*99	
Alton (near)	Juab		...						...	18.48	3.83	Mar.	T.	Oct.	*30.5	*59	*98	*116	*91	sw.
Alton (near)	Millard		2	50.4	99	Aug. 10	-2	Jan. 3	2	19.05	3.49	Mar.	0.27	Oct.	*45.0	72	*166	*108	*78	
Alton (near)	Utah	4,637	3						3	25.62	5.11	Mar.	0.13	Oct.	82.0	88	110	146	109	sw.
Alton (near)	Utah	4,532	14	51.7	105	July 22	-12	Jan. 9	14	20.93	3.20	Nov.	0.10	July	73.0	73	157	112	96	se-sw
Alton (near)	Sevier	5,323	16		94	July 21	-6	Jan. 3	16						*21.0	*81	*141	*82	*66	
Alton (near)	Millard	5,260	11	47.3	95	July 22	-22	Jan. 9	11	19.99	3.97	Mar.	0.17	Oct.	40.0	99	136	57	172	sw.
Alton (near)	Utah	7,474	14		100	Aug. 6	-15	Jan. 8	14						*34.7	*42	*116	*7	*148	sw.
Alton (near)	Carbon	5,280	2						2	19.83	4.30	Apr.	0.20	June	*99.0	*62	*18	*0	*12	
Alton (near)	Utah	5,075	14	50.9	105	July 24	-8	Jan. 1	14	12.34	2.20	Nov.	0.14	Jan.	*61.5	*44	*188	*44	*65	
Alton (near)	Juab		...	48.5	96	July 21	-5	Nov. 26	...						*24.0	46	138	152	75	
Alton (near)	Utah	4,500	...		94	July 23	-4	Jan. 6	...						*21.8	*68	*97	*79	*128	n.
Alton (near)	Carbon	5,540	7		96	June 10	-14	Jan. 21	7						*23.5	*18				
Averages				49.2						18.46					66.5	73	144	94	127	sw.
SOUTHERN.																				
Alton (near)	San Juan	4,800	6				-10	Jan. 3	6						*5.8	*35	*182	*86	*34	w.
Alton (near)	Beaver	5,970	3				-2	Jan. 21	3						*26.5	*43				
Alton (near)	Iron	5,850	1		94	July 22	3	Jan. 3	1						*59.9	*57	*119	*135	*69	sw.
Alton (near)	Garfield		5		91	July 22	-21	Jan. 9	5						*24.5	*50	*148	*46	*75	
Alton (near)	Washington									23.12	5.53	Mar.	T.	Oct.	*27.2	68	112	142	111	
Alton (near)	Garfield	5,700	6						6						*18.5	*37	*84	*12	*49	
Alton (near)	Washington		3																	

Monthly and Annual Mean Temperatures for the Year 1906, with Departures from the Normal

	January	February	March	April	May	June	July	August	September	October	November	December
STATIONS.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.	Temperature. Departure.
Northern.												
Alta (near).....			29.3									
Corinne.....	22.4 + 2.2	29.7 + 0.2	39.1 + 1.9	50.2 - 0.3	56.2 + 4.5	62.6 + 8.5	73.6 + 5.6	70.8 + 3.7	61.8 + 3.6	50.8 + 0.6	38.8 + 1.4	34.8 + 6.0
Farmington.....	27.8 + 0.7	34.0 + 3.1	38.6 + 1.2		56.6 + 0.3	61.2 + 4.8	73.9 + 1.6	69.6 + 2.1	59.6 + 0.3	49.8 + 0.1	41.3 + 0.3	37.6 + 7.2
Ft. Duchesne.....	10.0 + 1.7	18.7 + 0.5	36.0 + 0.3	49.0 + 0.9	56.4 + 0.4	61.2 + 4.4	70.0 + 1.1	69.2 + 0.5	60.7 + 0.1	47.0 + 0.3	42.6 + 0.9	18.7 + 0.6
Heber.....	20.8 + 0.2	28.4 + 6.0	33.6 + 0.3	45.7 + 1.6	51.6 + 0.8	56.5 + 3.0	66.4 + 0.6	64.8 + 0.1	54.2 + 1.1	44.8 + 0.1	32.4 + 2.7	29.2 + 7.0
Henefer.....	21.4 + 1.5	28.4 + 4.4	33.2 + 1.7	44.6 + 1.1	50.6 + 1.3	55.7 + 3.7	65.4 + 1.1	64.3 + 0.0	57.1 + 3.3	44.6 + 0.0		
Kelton.....	18.9 + 4.3		42.0 + 2.0	41.3 + 8.6	40.2 + 17.4							
Logan.....	21.4 + 3.1	28.6 + 3.4	34.3 + 0.4	49.2 + 2.1	52.2 + 2.8	56.4 + 7.3	75.6 + 4.5	72.2 + 1.3	64.6 + 3.3			33.6 + 8.3
Lucin.....	21.6		41.0	45.8	53.3							
Meadowville.....	21.0 + 1.9	22.3 + 0.7	24.4 + 4.2	39.8 + 1.0	48.4 + 1.0	53.3 + 3.5	64.2 + 0.3	64.2 + 0.7	53.8 + 0.2	43.2 + 0.1	30.8 + 3.7	29.8 + 5.0
Morgan.....	21.6	28.6	34.2	45.5	51.8	55.1	66.4	65.5	56.4	43.0	33.8	33.5
Ogden No. 1.....	25.0 + 2.3	31.3 + 1.1	37.8 + 2.0	50.0 + 0.4	56.6 + 0.5	63.3 + 4.9	75.4 + 1.8	71.2 + 1.8	61.4 + 0.8	50.2 + 0.1	37.6 + 2.7	36.3 + 8.2
Ogden No. 2.....	29.4 + 0.8	35.2 + 2.4	41.9 + 0.6	55.2 + 2.8	55.3 + 6.0	63.4 + 8.5	75.4 + 3.8	73.7 + 3.1	58.7 + 6.8	51.8 + 0.0	37.6 + 1.7	37.0 + 5.6
Park City.....	18.1 + 7.6											29.0 + 0.9
Saltair.....	26.4	33.3	37.8	48.0	55.8	63.1	74.1	71.6	62.4	49.4	40.1	36.0
Salt Lake City.....	28.3 + 0.4	34.2 + 1.3	39.8 + 1.8	49.3 + 0.2	56.3 + 1.5	62.4 + 4.5	76.2 + 0.7	73.0 + 1.6	63.8 + 0.5	52.6 + 0.3	39.2 + 0.6	38.4 + 5.6
Snowville.....	20.2 + 4.0	25.2 + 1.1	33.4 + 2.5	44.2 + 1.9	51.3 + 3.3	55.2 + 6.4	69.4 + 0.4	65.3 + 2.5	56.6 + 1.8	46.1 + 1.5	34.2 + 2.8	31.0 + 5.6
Strawberry Valley		7.4	23.6	34.8	44.6	50.5			53.6	42.9	28.8	
Theodore.....				48.8	54.4	61.3	69.4	68.4	59.4	46.1	32.4	20.6
Tooele.....	28.3 + 1.1	33.0 + 1.1	38.9 + 0.3	48.0 + 0.7	55.2 + 0.8	61.3 + 5.5	74.8 + 1.2	71.4 + 2.2	62.4 + 1.6	52.2 + 2.0	37.2 + 3.0	37.4 + 7.7
Vernal (near).....	11.3 + 8.3	20.6 + 2.1	32.8 + 2.8	48.0 + 0.4	56.0 + 0.9	64.8 + 2.2	71.5 + 0.0	69.6 + 0.5	60.8 + 0.7	46.0 + 1.6	32.6 + 2.4	22.5 + 4.5
Woodruff.....				47.2 + 7.8								25.2 + 5.4
Middle.												
Black Rock.....					55.4 + 0.3	62.3 + 2.0	72.8 + 4.0		60.8 + 2.7	50.1 + 2.3	35.4 + 2.8	35.0 + 8.1
Castle Dale.....	17.0 + 6.0	29.1 + 2.9	34.3 + 3.5	42.8 + 2.4	51.3 + 2.1	57.8 + 6.3	66.6 + 1.6	64.9 + 2.7	54.8 + 3.7	49.5 + 2.2		33.3 + 9.4
Deseret.....	27.4 + 0.6	34.8 + 5.1	38.8 + 1.4	48.7 + 0.9	55.7 + 1.0	62.4 + 3.4	72.6 + 0.9	70.4 + 0.9	59.8 + 0.4	47.2 + 1.9	34.0 + 3.4	34.0 + 9.0
Emery.....	26.4 + 1.1	35.0 + 7.1	36.8 + 2.0	45.2 + 3.0	53.8 + 4.1	59.6 + 0.8	68.2 + 4.7	69.2 + 0.4	57.4 + 2.9	49.0 + 4.8	34.1 + 0.3	32.6 + 6.5
Fillmore.....	30.8 + 1.2	37.2 + 4.9	41.2 + 1.3	48.2 + 1.3	58.4 + 0.9	64.9 + 3.2	77.2 + 2.2	73.2 + 1.5	64.2 + 1.7	54.2 + 1.9	39.5 + 2.1	37.4 + 7.8
Garrison.....		35.4	37.9	47.7	56.1	62.3	72.8	68.8	61.2	48.0	35.2	35.4
Government Creek	27.5 + 0.1	32.0 + 2.3	35.8 + 1.5	45.1 + 1.5	52.6 + 1.3	60.1 + 4.3	73.6 + 0.5	71.2 + 1.6	61.0 + 0.4	49.0 + 0.5	34.7 + 4.8	34.0 + 6.0
Green River.....	25.5 + 0.2	36.8 + 6.1		55.8 + 2.2	61.4 + 2.2	69.0 + 4.8	79.0 + 0.2					
Ibapah.....	23.3	30.6	35.0	44.4	51.2	55.6	67.8	66.4		*42.3	*29.0	*26.8
Levan.....	24.9 + 1.1	32.4 + 5.0	35.8 + 0.4	45.3 + 1.0	53.6 + 1.3	60.0 + 4.3	71.1 + 0.5	67.8 + 2.5	58.7 + 1.7	47.2 + 0.1	35.0 + 1.6	32.5 + 7.6
Manti.....	24.0 + 1.2	32.8 + 9.0	35.8 + 2.0	46.5 + 1.1	54.2 + 3.2	58.6 + 7.7	69.8 + 1.1	67.7 + 2.5	57.6 + 3.5	46.2 + 3.2	35.8 + 2.2	31.5 + 6.1
Mount Nebo.....	26.7 + 0.2	33.0 + 3.1	39.3 + 0.7	48.4 + 1.3	56.8 + 0.8	66.2 + 0.8	76.9 + 3.8	74.2 + 0.1	63.8 + 1.0	52.9 + 3.1	37.8	37.3 + 10.6
Mount Pleasant.....	24.8 + 2.5	31.2 + 1.5				63.0 + 1.8	72.7 + 0.6	69.0 + 2.6	59.6 + 2.1	47.6 + 2.4	35.0 + 4.4	33.3 + 6.3
Oak City.....	28.4	35.5	39.2	48.6	57.4	63.1	74.8	71.8	63.0	50.7	36.4	35.8
Provo.....	25.9 + 0.7	34.5 + 4.5	41.2 + 1.5	53.0 + 3.7	60.0 + 2.3	67.0 + 2.4	76.8 + 4.0	74.4 + 3.7	64.4 + 4.4	50.6 + 2.1	38.0 + 1.2	35.0 + 6.3
Richfield.....	23.5 + 2.3	36.8 + 5.4	38.2 + 3.9	48.2 + 1.7	55.4 + 1.7	60.2 + 3.9	68.6 + 2.2	66.4 + 1.0			31.9	36.6 + 8.4
Scipio.....	25.6 + 0.8	35.5 + 5.3	36.8 + 1.0	46.2 + 0.6	52.9 + 1.0	59.4 + 5.0	69.0 + 1.3	66.5 + 2.7	58.5 + 1.2	46.6 + 0.8	36.0 + 1.3	34.7 + 9.3
Soldier Summit.....	17.6 + 0.7	24.0 + 2.2	27.2 + 1.2	39.0 + 1.8	49.1 + 1.5	54.3 + 0.9	64.6 + 2.4	63.5 + 3.3		43.3 + 2.6		
Thistle.....	24.0 + 1.0	33.2 + 4.2	36.5 + 0.8	50.2 + 2.7	57.2 + 2.3	66.6 + 3.5	71.8 + 1.7	73.4 + 4.0	64.6 + 6.4	60.4 + 13.2	38.6 + 1.9	34.8 + 9.6
Trout Creek.....	27.9	33.8	36.4	47.8	56.0	60.0	72.0	68.8	60.0	50.5	34.4	34.0
Utah Lake Pmp S	24.3	32.3	36.0	49.8	53.4	61.4	71.4	66.8	60.1	48.0		
Wellington.....	17.5		38.8 + 1.3	47.8	55.4 + 0.8	62.0 + 2.8	70.1 + 0.9	69.0 + 0.1	59.5 + 0.6			
Southern.												
Aneth.....	27.3 + 2.6	41.6 + 4.9	47.4 + 2.1	55.7 + 1.4	64.1 + 1.6	70.9 + 1.3		76.2 + 1.1		54.5 + 0.6	43.8 + 1.0	39.0 + 8.6
Beaver.....	28.8	35.4	36.6	42.6	52.9			66.2	56.6	54.0	42.6	44.9
Cedar City.....	34.2	37.4	39.8	48.6	56.8		75.0	68.4	58.6	51.6	36.7	35.8
Coyote.....	19.0 + 5.0	30.1 + 2.9	35.4	41.0 + 1.2	50.8 + 2.7	56.2 + 1.0	62.8 + 4.0	63.6 + 1.5	61.8 + 0.6	54.8 + 1.9	46.1	
Escalante.....									68.2	58.4 + 3.1	49.5 + 1.9	36.2 + 3.6
Experiment Farm	38.4	47.0	48.9	55.8	64.0	73.0	81.6				41.0	41.6
Frisco.....	31.5 + 0.5	36.2 + 2.9									27.0	31.0 + 1.4
Giles.....	25.2 + 0.4	41.1 + 10.9	47.4 + 5.4	54.8 + 3.3	61.2 + 0.1	66.3 + 3.7	75.0 + 2.4	74.4 + 0.2	64.5 + 0.2			
Grayson.....	27.9	40.4	42.2	52.4	56.9	65.5	71.5	70.0	60.2	52.0	39.0	36.8
Hite.....	33.6 + 1.6	46.4 + 5.0	50.0 + 0.4	59.2 + 0.1	68.4 + 0.6	75.6 + 3.3	83.4 + 1.1	81.4 + 0.9	72.6 + 0.4	59.8 + 0.3		42.2 + 6.7
Kanab.....	26.6	38.0	37.7		54.4	62.6	69.3	64.9	58.0	49.6 + 1.7		
La Sal.....	25.3	32.5 + 5.3				60.3 + 1.8	65.3 + 2.6	65.6 + 2.0	56.7 + 1.2	46.0	34.8 + 4.0	33.0 + 6.9
Lon.....	14.1 + 7.7	22.2 + 1.7	31.8 + 0.1	41.8 + 1.2	50.8 + 1.2	58.6 + 0.9	64.8 + 1.3	62.8 + 0.6	51.5 + 2.1	40.7 + 0.7	29.0 + 2.8	25.6 + 4.2
Marysville (near).....	24.6 + 3.3	33.8 + 4.4	36.2 + 1.5	45.0 + 0.7	52.6 + 0.1	59.2 + 2.5	66.8 + 0.0	64.6 + 2.0	56.4 + 1.3	47.4 + 0.9	34.4 + 3.9	33.2 + 6.5
Milford.....											32.7	33.9
Moab.....	29.7 + 0.7	41.0 + 5.7	46.6 + 0.5	53.6 + 1.8	62.7 + 1.9	68.4 + 4.0	76.4 + 1.1	75.4 + 0.2	66.0 + 0.2	52.8 + 0.4	42.4 + 1.4	38.0 + 7.4
Modena.....	28.5 + 0.6	35.3 + 6.0	36.8 + 0.0	45.2 + 0.7	53.6 + 0.6	61.5 + 3.9	71.7 + 0.4	68.2 + 1.3	58.8 + 1.1	49.3 + 0.8	35.6 + 5.8	31.4 + 3.0
Parowan.....	26.6 + 1.0	34.2 + 3.5	38.4 + 0.0	43.8 + 3.2	54.4 + 1.0	63.0 + 1.5	71.6 + 0.5	67.4 + 2.7	58.4 + 2.0	43.4 + 0.5	33.8 + 3.0	32.0 + 3.8
Pinto.....	25.9 + 1.3	31.8 + 1.6	35.3 + 0.2	42.8 + 1.4	49.8 + 0.4	56.0 + 11.7	67.9 + 1.3	64.0 + 0.9	54.5 + 1.9		32.7 + 3.9	30.4 + 3.6
Plateau.....	26.4	27.9	31.7	42.0 + 0.2	48.3 + 0.8	56.3 + 2.1	64.8 + 3.0	62.3 + 1.6	53.9 + 1.1	44.7 + 0.0	32.0 + 3.2	31.2 + 8.2
Ranch.....		30.7 + 4.2	32.2 + 0.4	41.0 + 1.0	48.4 + 1.0	55.4 + 2.3	64.2 + 3.6	61.2 + 2.0	53.8 + 2.0	46.5 + 0.2	31.5 + 5.4	29.7 + 2.9
Rockville.....	39.0	52.0	52.6	58.1	67.1	76.4	85.0	79.0	73.0	60.6	46.4	
St. George.....	40.0 + 3.6	48.6 + 8.0	50.2 + 1.6	58.0 + 1.4	66.0 + 1.1	76.2 + 0.3	85.3 + 3.3	79.8 + 0.8	68.2 + 3.0	57.3 + 1.9	46.8 + 0.7	44.2 + 6.7
Tropic.....	28.4 + 1.2	37.2 + 9.3	38.4 + 2.6	45.0 + 1.1	52.4 + 0.2	60.3 + 1.4	68.6 + 1.6	63.2 + 0.8	58.6 + 1.8	52.8 + 6.1	37.0 + 0.6	33.7 + 6.2

Monthly Maximum Temperatures for the Year 1906. with Dates

	January		February		March		April		May		June		July		August		September		October		November		December	
STATIONS.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
Northern.																								
Alta (near)	44	25	52	15	64	29	83	*20	92	22	93	10	106	22	100	*6	90	*5	95	15	71	11	59	21
Fortune	50	*18	55	*18	60	*23	80	22	92	11	90	*11	94	*24	94	10	85	6	81	1	64	14	59	12
Farmington	41	19	45	28	67	31	80	22	86	19	95	12	95	25	95	10	89	7	80	*1	64	14	51	5
St. Duchesne	44	*16	50	27	60	30	76	*21	88	9	90	11	94	20	92	*11	83	*22	81	*1	65	*9	48	*9
Heber	48	*16	51	14	60	30	76	21	80	10	87	11	92	*21	93	*9	86	*6	85	2	68	9	51	11
Henrieville	40	*16	49	18	70	18	60	22	69	20														
Kelton	54	16	55	27	52	26	78	10	79	10	82	20	97	21	95	8	84	7			59	8	55	11
Logan	45	*8			60	30	78	22	82	11														
Lucin	42	16	45	28	50	24	73	22	74	11	81	12	91	22	89	11	78	5	75	2	60	10	50	*11
Meadowville	49	16	53	27	62	30	77	22	79	19	87	11	90	*20	90	*10	83	7	80	1	66	1	57	11
Morgan	48	20	52	28	64	31	78	22	82	19	91	11	96	21	93	10	82	6	80	1	63	*4	54	*11
Garden No. 1	47	17	57	27	68	30	79	22	88	10	89	12	97	20	98	*10	89	4	79	1	60	11	55	11
Garden No. 2	44	18																			57	*9	54	11
Park City	53	19	58	27	60	*23	79	22	81	*11	86	12	92	*21	91	16	81	*5	78	*1	68	15	60	12
Altair	50	16	56	27	65	30	78	21	82	10	91	11	96	21	96	10	88	6	85	2	67	14	61	11
Salt Lake City	47	24	49	17	60	30	78	22	82	9	87	11	98	22	97	9	89	8	83	9	67	14	58	3
Howville			45	17	54	22	63	22	69	*10	78	15					81	21	78	*1	69	9		
Strawberry Valley							78	22	83	19	92	12	92	*13	92	*9	85	*6	79	3	65	14	47	20
Theodore	54	16	59	27	67	29	79	22	81	*10	87	12	97	22	93	12	85	30	79	16	68	14	60	11
Doole	38	19	43	28	65	31	77	22	81	19	94	12	94	19	91	*12	83	6	77	3	60	14	48	29
Uernal (near)							70	30															48	7
Woodruff																								
Middle.																								
Black Rock	44	14	53	28	64	31	76	22	80	19	90	12	93	21	92	9	89	8	79	3	75	14	63	*11
Castle Dale	53	*16	68	27	68	10	80	21	83	10	93	11	98	21	96	*2	86	7	87	9	79	10	57	23
Deseret	46	*14	52	16	58	8	74	21	80	20	89	12	89	*24	95	3	86	5	80	*16	65	*13	65	*27
Emery	55	27	71	27	68	23	82	21	86	18	99	15	102	*21	105	10	90	*4	88	2	81	*10	66	10
Fillmore			64	27	66	29	79	21	83	9	94	11	97	21	93	9	89	*2	82	16	72	*10	64	7
Harrison	46	17	56	27	60	*10	73	*21	78	*10	89	12	95	*20	94	10	86	*6	82	2	64	*14	55	11
Government Creek	52	15	63	16			85	23	92	20	100	*13	105	22										
Green River	48	16	61	27	62	10	77	21	81	20	91	11	95	21	92	*3			78	*3	60	10	49	23
Ibapah	45	*17	59	27	64	30	76	22	80	19	88	*11	93	22	90	10	83	6	80	16	64	4	59	11
Levan	48	17	70	26	62	10	77	15	80	19	90	11	93	22	91	10	84	6	80	*2	67	9	60	11
Lanti	48	17	60	27	66	30	78	16	82	19	91	*12	96	24	95	10	88	6	81	*1	67	13	62	11
Mount Nebo	52	15	54	28							90	10	95	21	94	9	85	6	79	*1	65	10	59	10
Mount Pleasant	50	*17	64	27	65	*10	85	15	84	10	92	11	95	*23	99	10	87	6	86	2	67	*10	61	11
Park City	50	19	58	28	69	29	90	22	93	11	103	12	105	22	103	10	95	*6	91	1	75	15	58	10
Provo	53	*17	69	27	64	10	79	*20	83	18	93	11	94	21	92	*4					74	16	66	11
Richfield	50	26	63	27	63	10	79	22	81	11	92	11	95	22	93	10	84	23	82	*2	68	*10	63	11
Salt Lake	35	*17	42	17	48	*25	66	21	72	*9	95	11	98	*1	100	6			77	29				
Soldier Summit	52	26	60	18	70	10	79	22	96	21	102	20	105	24	105	5	95	7	98	*1	90	*2	58	4
Whistle	55	16	60	*20	65	10	78	21	88	2	92	*11	96	*21	96	16	87	8	86	*3	73	14	60	11
Crout Creek	49	17	52	20	58	9	75	*20	81	21	90	12	94	*23	93	9	85	6	79	2				
Utah Lake Pmp. Sta.	48	18			64	29	78	21	82	*11	96	10	95	*14	95	13	90	*5						
Vellington																								
Southern.																								
Albany	53	30	67	27	73	31	82	22	89	19	98	*12			99	8			86	3	71	11	62	9
Beaver	52	25	63	21	70	8	74	22	87	11					88	15	81	11			75	*5	73	19
Bedford City	53	26	60	26	64	*10	72	21	79	9			94	22	90	5	84	19	85	3	70	15	58	*11
Boyd	52	17	59	27	62	29	74	21	78	*18			91	22	90	10	84	10	85	16				
Burlington											88	11			89	11	84	*5	80	17	72	14	53	21
Caliente	67	27	76	27	75	*8	87	21	91	*8	101	11	107	22							74	*11	68	11
Experiment Farm	53	27	59	27																	67	15	55	22
Frisco	56	19	66	15	70	*11	88	21	88	19	95	*10	106	22	99	9	94	6						
Hiles	53	30	71	28	86	31	88	10	82	18	102	21	94	*21	92	9	89	8	79	*1	65	*10	58	1
Prayson	63	15	69	27	77	29	87	22	91	*9	102	*11	106	21	104	*9	99	6	91	2				
Revere	54	29	66	27	67	8					82				94	21	90	*8	84	6	81	3		
Sanab	53	27	50	2							85	13	89	22	85	9	80	*6	73	*3	61	9	55	11
Sal	45	*18	45	28	58	31	76	16	78	*9	92	11	91	2	90	*8	78	6	72	2	60	*12	46	20
Soda	49	18	60	27	64	*8	77	21	81	*10	92	11	92	22	89	9	84	10	84	16	75	15	66	23
Springdale																					73	14	58	24
Thurford	56	17	67	28	75	31	85	22	89	19	99	15	102	22	98	6	95	*7	86	3	71	5	58	*11
Udona	50	17	60	27	63	10	74	21	77	8	88	11	94	24	92	15	82	6	82	3	72	14	55	23
Warman	49	28	60	27	65	30	76	21	82	*10	92	11	93	*13	94	9	82	5	*79	1	66	*8	58	11
Winto	49	17	56	26	61	*29	71	*21	75	*8	87	25	90	*10	92	4	79	*1			68	8	56	24
Wintau	70	*19	49	*1	54	*8	71	21	75	*10	88	11	89	22	89	10								

Monthly Minimum Temperatures for the Year 1906, with Dates

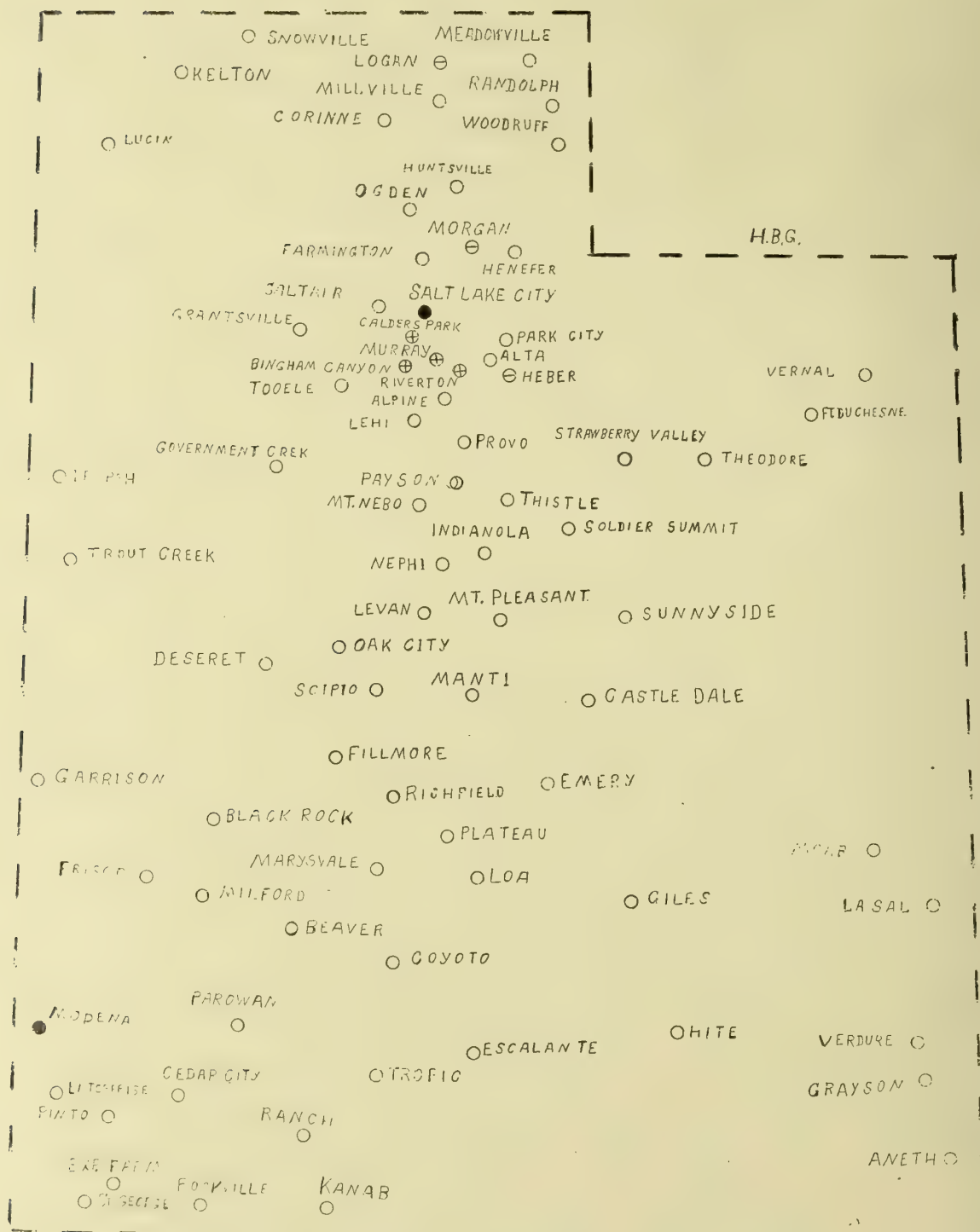
	January		February		March		April		May		June		July		August		September		October		November		December	
STATIONS.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
Northern.																								
Alta (near).....	-10	8	8	5	12	15	28	1	32	16	35	6	42	1	51	8	37	11	19	*22	7	24	15	15
Corinne.....	-3	12	21	*2	15	15	.....	.....	36	*1	30	1	54	*7	45	27	37	*18	22	23	9	20	15	15
Ft. Duchesne.....	-18	3	-15	8	19	24	13	30	2	31	8	45	*2	44	*27	36	13	19	24	.....	29	-8	15	15
Heber.....	-16	9	.....	.....	16	20	13	26	17	27	23	38	4	36	26	28	15	10	*23	.....	29	-8	15	15
Henrieville.....	-21	9	-4	4	11	16	19	13	23	6	27	*8	38	*4	35	26	24	12	7	23	-10	*19	-5	6
Kelton.....	-4	8	3	.....	20	13	20	16	13	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Logan.....	-15	8	5	8	13	*1	23	3	33	17	34	4	54	9	55	20	42	11	.....	.....	.....	.....	.....	.....
Lucin.....	-4	*28	.....	.....	14	20	1	18	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meadowville.....	-3	9	-4	9	-22	16	14	4	25	17	29	8	38	4	38	25	30	12	10	23	-9	20	2	1
Morgan.....	-20	9	-4	8	-8	16	19	*4	26	17	28	8	40	1	37	24	30	12	10	*21	-9	*19	-5	15
Ogden No. 1.....	-1	9	10	5	8	16	27	2	35	*17	35	7	57	*16	50	25	40	*15	25	20	9	22	14	15
Ogden No. 2.....	-2	8	23	*7	10	16	35	2	35	15	40	7	55	4	50	25	40	*18	27	24	10	*19	17	14
Park City.....	-8	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saltair.....	-1	9	22	*1	11	16	29	*4	39	1	40	6	60	*7	51	*26	41	*12	21	23	12	20	14	15
Salt Lake City.....	-7	1	22	4	15	16	28	2	34	17	37	5	60	29	50	25	43	17	27	23	11	20	17	15
Snowville.....	-13	8	-8	6	-2	16	20	*12	22	5	29	*7	40	19	35	25	25	17	9	23	-2	20	2	15
Strawberry Valley.....	-39	9	-25	7	-34	19	0	.....	21	17	24	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Theodore.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tonole.....	7	*1	19	6	7	16	23	4	30	17	35	*6	55	1	49	25	40	15	21	22	10	*19	15	15
Vernal (near).....	-10	22	-4	3	4	20	27	13	31	2	34	7	48	2	49	28	39	*17	20	24	3	29	1	*16
Woodruff.....	.....	.....	.....	.....	.....	.....	.....	*13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-12	15
Middle.																								
Black Rock.....	.....	.....	.....	.....	.....	.....	.....	.....	29	17	32	7	45	10	.....	.....	32	17	10	23	-7	29	8	2
Castle Dale.....	-15	9	0	3	5	*16	12	3	18	2	24	8	40	5	35	25	26	17	19	*22	.....	.....	8	1
Deseret.....	-7	3	16	26	1	*16	21	13	28	17	32	*7	45	4	38	*26	30	17	10	23	1	29	5	1
Emery.....	5	23	18	1	5	19	20	3	28	2	31	3	40	21	41	*26	28	26	18	22	4	21	9	*1
Fillmore.....	-1	3	20	*3	5	17	20	3	29	17	34	7	51	*1	46	24	39	*12	21	22	8	*19	11	1
Garrison.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Government Creek ..	-3	9	14	23	1	16	15	4	26	17	30	7	46	4	38	26	30	16	10	21	-5	29	12	*1
Green River.....	-3	9	14	*2	.....	.....	29	4	34	4	34	8	53	6	43	25	32	17	20	*20	-1	19	6	15
Ibapah.....	-17	9	10	*2	.....	.....	16	17	*26	19	17	26	7	37	4	36	25	.....	.....	.....	.....	.....	.....	.....
Levan.....	-6	9	14	23	5	16	18	4	28	17	32	7	51	4	43	26	34	17	15	23	5	20	6	15
Manti.....	-7	3	15	4	2	16	23	3	30	17	33	*8	48	*7	42	*25	33	17	14	23	5	20	2	15
Mount Nebo.....	-10	9	20	*4	13	19	26	4	31	17	35	6	54	2	49	25	39	17	18	23	9	20	9	15
Mount Pleasant.....	0	*2	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oak City.....	-2	3	18	9	3	16	18	3	27	17	33	7	51	14	44	27	37	*12	12	22	3	19	9	15
Provo.....	-12	9	24	*1	12	19	27	*3	31	1	35	9	51	5	44	25	35	18	19	23	8	20	9	15
Richfield.....	-6	3	19	*3	-1	19	24	13	30	17	30	8	37	9	36	28	.....	.....	.....	.....	.....	.....	.....	.....
Scipio.....	-22	9	17	6	-4	*16	19	21	24	17	29	*8	43	*3	37	*26	30	12	12	*22	-4	29	-2	15
Soldier Summit.....	-15	8	3	*8	-15	19	18	*2	22	1	22	24	30	6	33	23	.....	.....	.....	.....	.....	.....	.....	.....
Thistle.....	-8	1	10	7	6	*2	20	2	30	*5	32	4	40	*1	42	3	30	11	22	*19	-2	27	-4	14
Trout Creek.....	2	2	17	6	3	18	20	5	23	17	31	7	46	5	39	25	30	12	15	23	-5	26	6	15
Utah Lake Pmp. Sta.	-4	*6	21	*11	8	16	32	1	31	17	33	22	46	5	41	25	34	11	12	21	.....	.....	.....	.....
Wellington.....	-14	21	.....	.....	14	18	25	23	27	*1	30	7	42	3	39	28	32	*12	.....	.....	.....	.....	.....	.....
Southern.																								
Albion.....	-10	3	20	*4	19	2	27	2	34	1	42	8	.....	.....	51	23	.....	.....	22	24	14	20	14	*1
Beaver.....	-2	21	12	2	9	*2	17	27	25	30	.....	.....	.....	55	27	46	29	35	*15	19	21	4	20	8
Cedar City.....	3	3	8	28	10	*1	26	13	30	28	.....	.....	.....	26	1	29	28	26	*17	9	*23	.....	.....	.....
Coyote.....	-21	9	0	*1	-2	19	8	2	25	*2	32	29	37	*6	43	24	33	17	18	24	1	24	10	15
Escalante.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Experiment Farm.....	15	8	21	*7	21	1	27	1	36	28	44	7	56	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Frisco.....	5	*2	14	*5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Giles.....	-21	3	19	*11	19	31	5	32	*3	32	8	48	4	41	25	40	*1	.....	.....	.....	.....	.....	.....	.....
Grayson.....	1	22	19	23	16	*2	26	27	27	1	34	7	48	*4	46	24	29	17	22	22	9	25	12	16
Hite.....	2	3	25	8	25	11	35	1	41	2	48	1	58	7	59	*27	48	18	29	23	.....	.....	26	*1
Kanab.....	-15	3	13	*8	9	19	17	2	20	29	31	7	43	*1	40	*23	25	16	9	24	.....	.....	.....	.....
La Sal.....	-3	22	19	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lea.....	-23	9	-5	*4	0	*1	17	3	23	6	28	8	40	*4	32	26	28	17	13	22	-10	24	-6	15
Marysville.....	-11	9	7	2	-5	19	22	*13	26	*1	27	8	40	10	37	*24	29	17	12	*23	-4	25	8	15
Milford.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Moab.....	4	9	20	*2	14	*2	27	3	37	2	36	8	50	1	46	*26	40	18	23	24	10	20	16	*1
Modena.....	-8	2	18	4	1	19	22	2	31	6	34	6	46	6	44	24	34	14	13	23	-2	29	6	15
Parowan.....	-6	2	9	1	7	19	18	3	26	1	32	6	47	*6	40	24	33	*15	18	23	0	20	4	15
Pinto.....	-9	*9	1	23	-4	19	19	2	25	2	28	*2	40	5	37	27	28	17	.....	.....	-13	25	-2	15
Plateau.....</																								

Monthly and Annual Precipitation for the Year 1906, with Departures from the Normal

	January	February	March	April	May	June	July	August	September	October	November	December	Annual	
STATIONS.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	Precipitation. Departure.	
Northern.														
Smith's Fork	1.93 +.57	1.16 -.78	4.19 +2.31	3.07 +.93	4.13 +1.86	.....	1.26 +.68	3.77 +2.80	.....	2.00 +.78	2.59 +1.23	2.57 +1.59	.....
Rock	2.49	10.70	7.10	1.39	4.22	1.24	.....	3.20	1.93	0.30	.....	6.65	.....
.....	2.46	*0.50	.....	1.38	4.24	1.90	.....	3.15	1.14	0.30	.....	.....	.....
.....	1.87	1.13	2.04	1.38	4.24	1.90	.....	2.57	1.13	0.30	.....	1.74	1.70
.....	2.10 +.79	0.70 -.52	3.32 +1.97	2.83 +1.73	3.35 +2.07	1.24 +.76	1.10 -.34	3.85 +3.41	.67 +.02	0.35 -.59	0.82 -.19	3.02 +1.53	22.37 +10.64	
.....	2.38 +.26	2.56 +.21	3.72 +1.25	.....	4.47 +1.64	2.18 +1.89	T. -.48	3.20 +2.74	1.49 +.54	0.30 -.91	2.35 +.89	2.39 +.88	.....
.....	0.35 -.03	0.30 -.14	1.10 +.44	.....	1.19 +.40	1.10 -.13	1.30 -.20	1.50 +.86	.95 -.25	0.58 +.04	1.83 +1.56	0.60 +.10	9.17 +2.42
.....	.....	.....	1.86	.....	2.80	.....	.....	2.42	1.28	0.65	1.10	0.78	14.17
.....	3.10 +1.13	1.58 -.52	3.93 +1.71	1.23 -.08	2.61 +1.02	1.10 +.69	.97 +.16	3.11 +2.33	*.10	0.43 -.81	1.54 +.12	2.45 +.93	.....
.....	3.40 +1.09	1.96 -.08	3.73 +1.66	1.32 -.23	3.78 +2.12	1.81 +1.56	.29 -.16	2.07 +1.20	.56 -.44	0.16 -.37	2.43 +.75	1.86 +.58	23.37 +7.64	
.....	3.38 +.82	1.82 -.44	3.31 +.62	2.17 +.32	3.56 +1.44	1.47 +1.00	.09 -.29	3.54 +2.93	1.69 +.98	0.51 -1.08	1.23 +1.00	3.48 +1.88	26.25 +9.18	
.....	0.85 +.25	0.16 -.47	1.56 +1.05	.....	1.83 +1.18	.52 +.22	.38 +.01	.....	.....	0.19 -.24	0.20 -.02	1.21 +.52	.....
.....	2.28 +1.11	2.02 +.84	2.61 +.75	2.47 +.68	5.05 +2.89	1.43 +.83	.71 +.32	4.55 +4.03	1.62 +.54	0.60 -.51	1.07 -.12	1.39 +1.01	26.40 +12.37	
.....	2.00	.....	0.15	.....	T.	.....	.....	.....	.....	.....	.....	.....	.....
.....	2.73	2.27	4.69	1.79	3.09	1.22	.47	3.87	.71	0.09	2.86	2.49	26.28	
.....	5.45 +3.65	1.10 -.74	3.40 +1.93	1.75 -.11	4.10 +2.42	1.30 +.69	.90 +.35	2.80 +2.16	.90 +.07	1.05 +.03	0.75 -.69	1.55 +.64	25.05 +10.40	
.....	1.59 +.19	1.05 -.18	2.54 +.51	2.74 +.77	4.64 +3.65	1.56 +.98	.13 -.29	3.64 +2.97	1.18 +.18	0.42 -1.04	1.06 -.61	1.57 +.56	22.12 +6.69	
.....	2.78	1.65	2.95	1.82	3.86	.....	.11	4.57	.91	0.20	2.71	1.81	24.36
.....	2.12 +.04	2.41 +.55	3.05 -.06	2.67 +.43	5.63 +2.59	1.47 +1.06	.44 +.16	4.11 +3.51	1.30 +.61	T. -1.02	2.78 +1.77	2.63 +1.20	28.61 +10.84	
.....	1.19 -.34	1.38 -.16	3.67 +1.95	1.44 +.04	4.68 +3.04	1.00 +.45	.20 -.03	3.96 +3.49	1.34 +.66	0.20 -1.11	1.82 +.66	1.98 +.36	22.86 +9.01	
.....	4.58 +2.89	.....	.....	.....	.....	.....	.....	.....	.....	*2.15	2.12 +.59	.....	.....
.....	1.10	0.30	1.20	1.21	2.02	1.10	.40	2.19	2.17	0.49	0.46	1.21	13.85	
.....	1.13	0.57	3.45	3.57	2.13	1.35	T.	3.12	1.20	0.37	1.53	1.15	19.57	
.....	1.19 -.25	1.96 +.68	2.84 +.81	3.08 +.87	3.17 +1.45	1.49 +.70	.23 -.30	2.28 +1.56	1.49 +.56	0.39 -1.15	2.10 +.74	1.06 -.58	21.28 +5.09	
.....	1.20 -.04	.40 -.51	4.03 +2.47	1.51 +.25	3.54 +2.25	1.49 +1.01	.54 +.17	.73 +.50	.27 -.28	0.46 -.57	0.40 -.52	2.47 +1.46	17.04 +6.19	
.....	2.77	1.98	*2.27	*1.11	2.63	3.49	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.47	.61	.12	.56	1.28	1.51	1.40	2.31	0.70	.....
.....	0.66 -.42	1.57 +.46	3.26 +1.23	3.17 +1.40	2.66 +.31	1.14 +.57	.61 +.19	2.85 +2.27	1.26 +.65	0.54 -.73	1.84 +.33	0.75 -.15	20.31 +6.11	
.....	0.96 +.38	0.29 -.42	1.11 +.18	1.52 +.78	2.55 +1.60	.25 -.14	1.18 +.44	1.02 +.48	1.00 -.25	0.39 -.36	2.77 +2.09	1.72 +1.24	14.76 +6.02	
.....	.....	.....	.....	1.60 +.79	.....	.....	.....	.....	.....	.....	.....	.84 +.06	.....
Middle.														
Smith's Fork	2.36	.58	2.51	2.13	2.01	.03	1.29	1.15	2.98	0.61	0.67	0.19	16.51	
Rock	1.59 +1.25	T. -.77	.97 +.53	3.31 +2.19	.91 -.27	.12 -.34	*.37	1.12 +.27	2.33 +1.41	0.03 -.75	2.11 +1.66	0.97 +.59	.....
.....	2.80	1.30	.....	3.50	.60 +.27	.....	.77 +.25	.89 +.17	.60 -.22	0.40 -.11	*1.50	1.88 +1.78	.....
.....	0.31 -.11	.41 -.52	2.10 +1.21	1.63 +.66	1.96 +.82	.19 -.12	.27 +.17	.63 +.14	.95 +.29	T. -.45	1.38 +.98	0.94 +.45	10.77 +3.52	
.....	1.73 +1.69	0.20 -.65	1.30 +1.08	2.07 +1.99	.75 +.33	T. -.43	.75 +.61	1.28 +.53	1.40 +.81	0.60 +.24	2.00 +1.85	1.70 +1.60	13.78 +9.65	
.....	0.72 -.48	1.16 -.35	3.88 +1.88	4.28 +2.57	2.18 +.72	.40 -.19	1.27 +.75	1.20 +.44	2.38 +1.42	0.15 -.68	2.93 +2.09	0.63 -.42	21.28 +7.75	
.....	.....	T.	2.47	1.58	.77	.06	.33	.93	.50	0.10	0.88	0.58	.....
.....	0.64 -.29	0.95 -.47	2.67 +.10	3.63 +2.23	2.14 +.32	1.19 +1.02	.43 +.16	1.34 +.10	.97 +.34	0.25 -.22	2.60 +1.57	1.28 +.65	18.09 +5.51	
.....	.....	0	.67	3.50 +3.06	.90 +.27	0 -.07	05 -.12	.....	.....	.....	.....	.....	.....
.....	0.12	0.90	1.75	1.02	1.25	.70	.95	2.80	.....	+2.49	+3.81	+0.22	.....
.....	0.14	0.11	3.20	.24	.19	.04	T.	.30	*.04	T.	0.17	.....	.....
.....	1.64 +.28	1.37 -.22	5.69 +3.56	3.77 +2.16	3.30 +1.69	.57 +.05	.79 +.18	1.31 +.55	1.74 +.50	0.38 -.91	1.57 +.64	1.71 +.05	23.84 +8.53	
.....	2.48 +1.49	.89	2.82	3.37	1.96 +.96	.36 +.23	.45 -.06	1.69 +1.25	1.52 +.51	T. -.81	1.73 +.87	1.53 +.79	18.52 +8.03	
.....	0.92 -.18	.59	2.86	2.26 +1.60	1.71 +.37	.49 +.24	.77 +.51	.86 +.61	1.18 +.65	0.05 -.26	1.17 +.74	1.09 +.58	13.95 +5.79	
.....	1.53 +.41	1.50 -.39	.....	.....	.....	.48 +.03	.90 +.22	1.87 +1.27	1.24 +.34	0.40 -.45	1.26 +.44	1.28 +.03	.....
.....	1.62	1.07	4.29	3.76	3.35	.61	1.45	2.31	.71	T.	1.81	1.36	22.34	
.....	1.48	.68	3.83	2.87	2.92	.43	.80	1.57	.61	T.	1.47	1.82	18.48	
.....	1.09	0.91	3.49	3.28	2.31	.58	.83	1.56	.94	0.27	2.15	1.64	19.05	
.....	1.15	1.89	5.11	4.57	2.83	1.31	1.01	2.10	.94	0.13	3.14	1.44	25.62	
.....	1.05 -.15	0.90 -.55	2.80 +1.22	3.18 +2.00	3.80 +1.17	1.45 +1.01	.10 -.13	1.80 +1.51	.70 +.31	0.20 -.64	3.20 +2.25	2.75 +1.34	20.93 +9.34	
.....	*.30	0.29 -.50	1.51 +.48	1.24 +.65	1.30 +.86	.10 -.20	.85 +.51	1.04 +.42	.....	*0.39	0.41 -.27	.....	.....
.....	1.73 +.54	1.08 -.74	3.97 +1.71	3.07 +1.91	2.05 +.61	.71 +.41	.46 -.16	1.64 +.79	1.68 +.82	0.17	1.07	1.99 +.78	1.44 +.55	19.99 +6.15
.....	0.38 -1.15	1.65 -.06	.64 -1.21	.24 -.38	1.17 +.33	.21 +.01	.19 -.39	1.20 +.55	.....	0 -.66	.....	.....	.....
.....	0.75	0.40	2.25	4.30	1.52	.20	2.59	1.15	1.83	0.47	3.80	0.57	19.83	
.....	3.00	1.50	+ .09	4.77 +3.09	*2.02	2.28 +1.26	.80 +.45	2.77 +1.83	.....	0.05 -.47	0.81 -.28	1.50 +.07	.....
.....	0.14	0.43	.92	1.18	1.92	1.70	.28	1.00	1.22	1.20	2.20	0.15	12.34	
.....	.90	0.54	1.00	2.10	2.35	.70	1.60	2.14	1.15	0.38	.....	.....	.....
.....	1.15 +.76	.....	.90 +.35	.70	.42 -.17	0 -.38	.35 +.09	.67 -.32	1.02 -.03	.....	.....	.....	.....
Southern.														
.....	0.29 -.30	T. -.67	1.06 +.37	.55 +.11	.25 -.06	0 -.34	1.20 +.80	.54 -.02	.....	0.11 -.11	1.01 +.29	1.08 +.81	.....
.....	1.10	1.09	3.59	1.62	1.86	.....	.....	2.04	1.27	0	0.85	.70	.....
.....	0.68	1.28	3.78	1.77	.72	.....	.40	.88	1.56	0.10	2.07	1.31	.....
.....	2.23 +1.99	0.10 -.22	1.38	2.00 +1.30	.31 -.39	.....	2.01 +1.57	1.48 +.64	2.55 +2.15	T.	.....	.....	.....
.....	1.54	1.01	5.53	1.78	.44	.33	1.65	4.04	1.38	T.	1.74	3.68	23.12	
.....	.....	.....	.....	.....	.66 +.20	0 -.41	*.87	*.45	1.21	0.14 -.27	2.31 +1.93	2.99	.....
.....	0.10 -.35	0.56 -.19	.....	.....	.....	.....	.....	.....	.....	.....	*0.98	0.95 +.62	.....
.....	0.82 +.48	0.20 -.14	1.03 +.93	1.22 +.73	.72 +.24	0 -.22	.65 +.15	.43 -.29	1.27 +.60	0.20	.....	.....	.....
.....	3.21	T.	3.72	1.69	1.10	0	1.38	1.23	2.81	0.20	4.31	4.15	23.80	
.....	0.74	0.22	.52 +.94	.39 +.08	.45 -.19	T. -.12	.45 +.23	1.28 +.85	1.84 +1.22	0.11 -.02	.....	0.76 +.67	.....
.....	4.00	T.	1.64	.30	.10	0	1.30	2.00 +1.04	.30	0.20 -.42	.....	.....	.....
.....	1.13	*T.	.....	.....	.....	0 -.43	1.37 +.73	1.38 +.20	1.83 +.54	0.48	1.41 +.61	0.21	.....
.....	1.50 +1.08	0.15 -.47	4.00 +3.46	3.00 +2.50	.35 +.01	0 -.18	.90 -.02	.56 -.68	1.30 +.78	0 -.43	0.90 +.51	0.45 +.21	13.11 +6.77	
.....	0.85 +.05	0.63 -.64	3.02 +1.36	1.47 +.83	.65 -.39	.01 -.40	.90 +.08	.91 -.59	1.33 +.31	0.06 -.61	1.09 +.34	1.45 +1.06	12.37 +1.40	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*1.45	1.43	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*.96	2.14	.....	.....
.....	0.57 -.07	0.21	0.46	1.88 +1.03	1.72 +1.28	1.79 +10.3	T. -.21	.77 +.24	.58 -.04	2.08 +.98	.....	.....	.....
.....	0.67 +.04	0.47	-1.12	3.22 +2.31	2.91 +2.16	1.31 +.56	0 -.20	2.30 +1.85	3.40 +2.17	0.34 -.18	1.42 +1.22	2.13 +1.85	19.08 +11.12	
.....	0.25	0.16	2.93	1.71	.90	.....	.....	.....	.....	.....	1.50	0.66	.....
.....	1.40 +.43	0.93 -.42	3.99 +2.14	1.95 +.76	.62 -.56	T. -.21	1.71 +.87	3.10 +1.76	3.49 +2.61	0.41 -.38	2.09 +1.54	1.18 +.37	20.87 +8.91	
.....	0.88	0.71	2.18	2.88	.....	0	2.28	3.05	2.41	0.83	0.86	.93	.....
.....	2.72 +1.87	1.52 +.09	6.45 +4.63	2.15 +1.24	.93 -.17	.17 -.07	1.64 +.90	2.82 +1.46	1.82 +.61	0.10 -1.24	2.43 +1.98	2.85 +2.46	25.60 +12.86	
.....	2.52	0.51	4.04	2.40 +1.29	1.17 -.77	.01 -.71	1.15 +.31	1.24 +.44	2.94 +1.75	0.41 -.41	1.98 +.84	1.27 +.13	19.64	
.....	.....	1.65	-1.82	12.02 +7.66	2.55 +1.08	.64 -.79	T. -.41	2.94 +1.48	3.85 +2.36	T. -.55	2.16 -.05	3.51 +1.01	.....
.....	1.87	0.86	5.13	1.38	.45	.20	.83	4.11	.78	0	1.50	2.66	19.77	
.....	0.66 -.26	0.71 -.26	2.51 +1.87	.90 +.56	.39 0.0	T. -.05	.71 +.13	1.04 +.33	.50 +.03	0 -.44	1.21 +.77	2.45 +1.61	11.08 +4.29	
.....														

T trace. * Incomplete. † Estimated. ‡ Various Canyons. † Ibapah near.

CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS



KEY TO SYMBOLS.

- COOPERATIVE STATION. ⊕ FORECAST DISPLAY STATION.
- COOPERATIVE AND FORECAST DISPLAY STATION.
- LOCAL OFFICE U.S. WEATHER BUREAU.

TOTAL PRECIPITATION FOR THE YEAR 1906.



SCALE OF SHADES--IN INCHES.



DISPLAYMEN

Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.
Bingham Canyon *(40)	Mgr. R. M. B. Telephone Co.	Calders Park *(200)	W. J. Butter- worth, P. M. C. H. Ohlwiler.	Logan *(17).....	Experiment Sta- tion. T. R. G. Welch. Thomas Braby. C. E. Foxley.	Provo *(321)..... Riverton *(100)...	Postmaster. A. E. Walk- M. The Warde
		Heber *(90).....		Morgan Mt. Pleasant.... Point Lookout...		Utah Penitenti- ary.	

COOPERATIVE OBSERVERS

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Alpine	T. B. Whitby.	Garrison	E. M. Smith.	Marion	James Woolsten- hulme.	Randolph	William Re
Alta	John G. Stillwell	Giles	J. C. White.	Marysvale (nr.)..	John W. Henry.	Richfield	Simon Chri
Aneth	Miss Sophie Hu- bert.	Government C'k.	Walter James.	Meadowville	J. S. Moffat.		sen.
Annabella	J. W. Fairbanks.	Grantsville	Allen Fraser.	Millville	Fred Yates.	Rockville	E. R. Daley
Beaver	A. B. Anderson.	Grayson	Joseph A. Ly- man.	Minersville	Geo. Roberts, Sr.	Saltair Beach....	Francis
Black Rock.....	Willard Burbank	Green River.....	F. P. Fullmer.	Moab	Henry Crouse.		Bailey.
Blacksmith's Fk	A. M. Israelson.	Heber	John Crook.	Morgan	T. R. G. Welch.	St. George	James G. I
Castle Dale	James Jeffs.	Henefer	William Brewer.	Mt. Nebo.....	D. C. Walkey.	Scipio	Thos. Mem
Castle Rock.....	David Moore.	Hite	F. W. Gibbons.	Mt. Pleasant....	Web Greene.	Snowville	Joseph Ro
Cedar City.....	J. M. Foster.	Huntsville	Lars Petersen.		A. Madsen.	Soldier Summit..	Agent R. C
Clear Creek.....	George Wilcox.	Ibapah	J. S. Lawton.	Nephi	Stephen Boswell.		Ry.
Corinne	Agent S. P. Ry.	Indianola	R. H. Spencer.	Nephi (near)....	Jos. Finlinson.	Strawberry Val.	A. B. Larso
Coyoto	H. J. McCullough	Kanab	E. M. Ford.	Oak City.....	Enoch Farr.	Sunnyside	Henry Cull
Deseret	S. W. Western.	Kelton	Agent S. P. Ry.	Ogden No. 1.....	W. H. Chevers.	Theodore	M. M. Smi
Emery	H. C. Wickman.	La Sal	Mrs. G. W. Car- penter.	Ogden No. 2.....	John E. Steele.	Thistle	Agent R. C
Enterprise	John Day.			Panguitch	J. M. Martin.		Ry.
Escalante	Geo. H. Barney.	Levan	William Brown.	Park City	James Connell.	Tooele	I. J. Elkin
Experim't Farm.	J. T. Atkins.	Loa	Michael Hansen.	Parowan	Richard Rowley.	Trout Creek.....	E. E. Edw
Farmington	Charles Boylin.	Logan	Experiment Sta- tion.	Parowan (near)	D. L. Coombs.	Tropic	E. P. Bolt
Fillmore	J. J. Starley.			Payson	J. H. Harrison.	Utah Lake P. S.	W. A. Knig
Ft. Duchesne....	Post Surgeon.	Lucin	Agent S. P. Ry.	Pinto	W. H. Schock.	Verdure	R. P. Hott
Frisco	Prof. Albert Warren.	Manti	W. M. Harmon.	Plateau	Wm. K. Henry.	Vernal	Joab Colli
				Provo	J. W. Seaman.	Wellington	E. E. Bran
				Ranch		Woodruff	C. G. Young

561.05
UNE
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

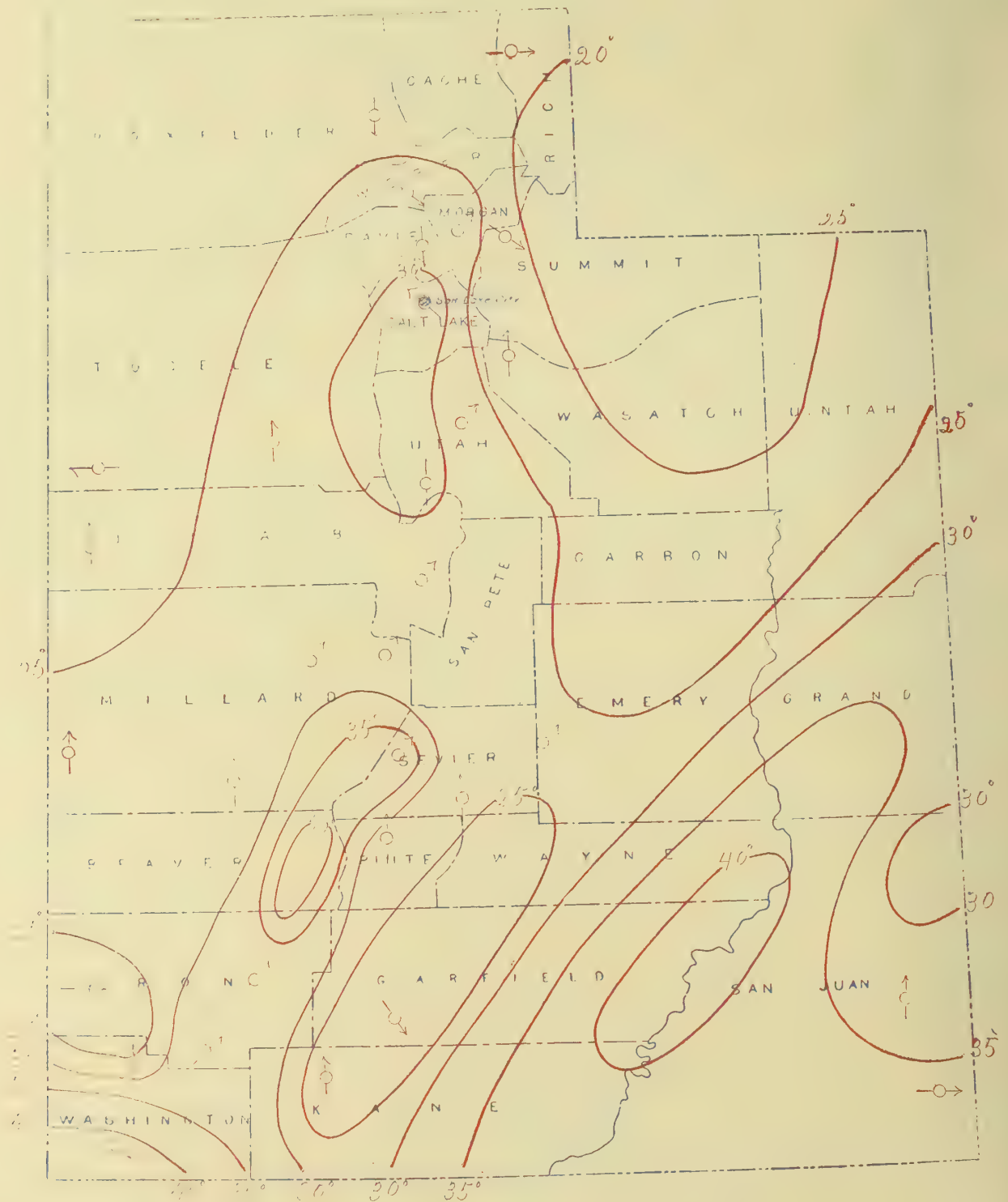
R. J. HYATT.

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
FEBRUARY 23, 1907

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, JANUARY, 1907. No. 1

GENERAL SUMMARY.

Notwithstanding a pronounced dearth of sunshine during the month, the atmospheric activity during the prevalent low air pressure of the first two weeks caused warm southwesterly winds over most of the State, maintaining temperatures above the seasonal average. High air pressure overspread the State during the third week, clearing the skies, lowering the temperature considerably, and causing the monthly minimum temperatures principally at that time. Lower barometric pressure, with warm, cloudy weather, characterized the closing week.

During the first half of the month stormy days were quite frequent, and the amount of snowfall, especially in the mountain districts, was unusually large. This general snow-covering was, however, almost entirely swept away by the warm winds and the rains of the closing week, leaving the ground generally bare, particularly in the valleys of the southern part of the State. The disappearance of the snow was not an altogether unfavorable occurrence, as the ground was mostly unfrozen, and became saturated to a great depth. While the precipitation was generally heavy, there were, however, isolated localities to the eastward of the south-central mountain districts where very little precipitation occurred.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 52 stations, was 28.0° , or 2.1° above the normal. The highest local monthly mean was 42.2° at Beaver; the lowest was 18.2° at Ft. Duchesne. The highest temperature recorded was 66° at Beaver on the 26th, and at Experiment Farm and St. George on the 28th; the lowest was 20° below zero at Ranch on the 2nd, and at Tropic on the 17th, giving an absolute range for the section of 86° . The highest temperatures of the month were generally recorded on the 28th, and the lowest on the 2nd and 23rd.

PRECIPITATION.

The average precipitation, determined from the reports of 69 stations, was 2.30 inches, or 1.33 inches above the normal. The excess was slightly greater over the northern portion. The greatest monthly amount was 10.96 inches at Park City, and the least none at Loa and Castle Dale. The greatest precipitation in any 4 consecutive hours was 1.50 inches at Park City on the 6th. There was an average of 9 days with 0.01 inch or more of pre-

cipitation; 11 over the northern, 9 over the middle, and 7 over the southern portion.

WIND.

The prevailing directions of the wind for the section were south and southwest. The total number of miles recorded at Salt Lake City was 4,185; at Modena, 8,678; at Grand Junction, Colo., 3,006; and at Pocatello, Idaho, 6,486. The maximum velocity at Salt Lake City was 36 miles per hour from the northwest on the 13th; at Modena, 50 miles from the southwest on the 15th; at Grand Junction, Colo., 34 miles from the southwest on the 6th; and at Pocatello, Idaho, 38 miles from the south on the 6th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 9; partly cloudy days, 8; cloudy days, 14. Determined from the records of automatic sunshine recorders, Salt Lake City had 24 per cent; Modena 69 per cent; Grand Junction, Colo., 33 per cent; and Pocatello, Idaho, 48 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 76 per cent, the lowest observed reading being 50 per cent on the 4th; at Modena, 89 per cent, the lowest observed reading being 62 per cent on the 6th; at Grand Junction, Colo., 66 per cent, the lowest observed reading being 36 per cent on the 14th and 19th; and at Pocatello, Idaho, 78 per cent, the lowest observed reading being 56 per cent on the 30th.

JANUARY SNOWFALL BULLETIN.

In contrast to December, the January snowfall was much above the normal thruout the State. Snowstorms were frequent during the first half of the month, and high winds drifted the snow to great depths in the mountains of the Sevier and Great Salt Lake watersheds. While the mountains of the Green and Colorado rivers watershed received considerable snow, in some of the lower valleys of those districts scarcely any snow fell. In general, however, more snow covered the mountains at the close of January than has been observed at this time of the season for years.

The numerous rains in the latter part of the month melted much of the snow in the valleys, but saturated and packed it in the mountains. In all high districts the snow was in excellent condition for keeping until late in the summer. The ground, especially in the valleys, was unfrozen, and well saturated by the recent rains and melting snow. Farmers from all districts reported the outlook for next summer's water supply better than it has been for many years.

OBSERVERS' REMARKS.

Alpine.—The past month was very cloudy.

Aneth.—January was unusually warm and cloudy. We had more rain than snow.

Castle Rock.—The weather was mild. The heavy snowfall indicated a good water supply for the coming summer.

Corinne.—The skies were cloudy most of the time, and the temperatures moderate. The snowfall amounted to 15 inches.

Emery.—The weather was very changeable, there being much freezing and thawing.

Government Creek.—January was a very stormy month.

Heber.—This was a very stormy month, with only five clear days.

Henefer.—The weather was very stormy, and the prospects for next summer's water supply were excellent.

Huntsville.—January was a very cloudy month, but the weather was not cold.

Ibapah.—Much of the snow melted as it fell.

Marion.—The weather was mild for this time of the year, but high winds were common.

Marysville.—Cloudy weather prevailed the most of the month, and the snow drifted in the mountains.

Meadowville.—The past month has been very stormy, with more snow than we have had for years.

Mt. Nebo.—Damp, cloudy weather prevailed the greater part of the month.

Park City.—The ground was covered with snow the entire month. High winds did some damage.

Provo.—Foggy weather prevailed much of the time.

Ranch.—The snow was deep in the mountains, and water was plentiful.

Sunnyside.—The first part of the month was very stormy, there being almost continuous flurries of snow.

Theodore.—Cloudy skies and dense fogs characterized the entire month, there being less sunshine than ever before known since the station has been established.

Tropic.—Precipitation was much above the normal.

MISCELLANEOUS PHENOMENA.

Coronae, lunar.—Marysville, 26, 31; Tropic, 28.

Thunderstorms.—Salt Lake City, 6; Sunnyside, 7.

Halos, solar.—Henefer, 2; Levan, 29; Mt. Nebo, 8, 29.

Parhelias.—Henefer, 2; Marion, 8, 29; Meadowville, 17; Morgan, 8.

Fog, dense.—Ibapah, 5, 8; Marysville, 9, 30; Salt Lake City, 22–25, 30.

Hail.—Black Rock, 18, 26; Levan, 10, 11, 13; Marion, 10; Meadowville, 31.

Halo, lunar.—Hite, 26–28; Marysville, 26; Meadowville, 8; Nephi, 20, 29; Richfield, 8; Salt Lake City, 29; Theodore, 17; Tropic, 3, 30.

Sleet.—Corinne, 1; Heber, 28; Henefer, 5; Huntsville, 28, 31; Levan, 30; Meadowville, 28, 31; Modena, 14; Nephi, 10, 30; Payson, 26, 27; Vernal, 6.

Fog, light.—Aneth, 31; Corinne, 23; Henefer, 29–31; Manti, 29, 31; Meadowville, 23, 30; Modena, 30; Nephi, 25; Provo, 23–26; Ranch, 30; Salt Lake City, 10, 17, 21, 26, 27, 29; Sunnyside, 30; Theodore, 15, 27–31; Tropic, 29.

High winds.—Aneth, 6, 26; Black Rock, 6, 12, 31; Castle Dale, 19; Cedar City, 4, 5; Emery, 13; Enterprise, 6, 7, 12; Garrison, 2–8, 12–17, 26–29, 31; Government Creek, 4; Ibapah, 6, 13, 14, 16, 31; Levan, 13, 14; Marysville, 5, 7, 13, 15–17; Modena, 15; Mt. Nebo, 5, 6, 15; Nephi, 6, 12, 13; Park City, 18; Pinto, 6, 7, 13–15; Ranch, 6, 13; Salt Lake City, 13; Theodore, 6; Woodruff, 13.

LATE REPORTS, 1906.

OCTOBER.

Beaver: Mean temperature, 54.0°; highest, 79° on the 6th; lowest, 13° on the 19th; greatest daily range, 42°; precipitation, none.

DECEMBER.

Beaver: Mean temperature, 44.9°; highest, 73° on the 19th; lowest, 17° on the 22nd; greatest daily range, 51; total precipitation, .70 inch; greatest in any 24 consecutive hours, .40; total snowfall, 7.0 inches; number of days with .01 inch or more of precipitation, 2.

Grantsville: Total precipitation, .78 inch—.30 on the 3rd, .45 on the 13th, and .03 on the 26th.

PHENOLOGICAL RECORDS, 1906.

MEADOWVILLE, RICH COUNTY.

Latitude, 40° 51'; longitude, 111° 22'; elevation, 6,000 feet.
(J. S. Moffat, Observer.)

The aspen, cottonwood and poplar trees showed their first leaves during the first week in May, the aspen leaves coming several days earlier than the cottonwood or the poplar. In less than two weeks later the woods were green, remaining so until they were colored by the frosts of late September and early October. During the closing days of October the leaves began to drop, and early in November the trees were bare.

The apple tree leaves appeared toward the close of May. The first blossoms set about June 1st, the full bloom being on about ten days later. The apples were harvested in September and October. Wheat, oats and barley ground was prepared during April and the first decade of May, the planting being completed within the three weeks following. The harvest period was principally in September. Winter rye was sown in October, 1905, and harvested in August, 1906. Irish potatoes were planted in May, and were dug from early July to early October. The second crop of alfalfa was harvested from the 15th to the 25th of September.

The first meadow larks were seen March 17th, and ground squirrels March 24th. The first croaking of frogs was heard April 1st, and squirrels were holed up about August 1st.

HEBER, WASATCH COUNTY.

Latitude, 40° 28'; longitude, 111° 34'; elevation, 5,600 feet.
(John Crook, Observer.)

The boxelder tree showed its first leaves about May 1st, the balm of gilead and poplar leafing ten days later. The first coloration by the fall frosts occurred: boxelder, September 1st; balm of gilead, September 15th; and poplar, September 20th. The leaves began to drop about ten days afterward, and the trees were bare a fortnight later.

Apple trees began to leaf May 15th, and blossomed on the 20th, reaching full bloom about May 30th. The period of harvest extended thru August and September. Pear trees showed first leaves May 6th. The first blossoms appeared May 15th, the full bloom coming a week later. The harvest period was from August 20th to October 1st. Irish potatoes were planted during the last decade of May, and were dug during the first two weeks in October.

COMPARATIVE DATA FOR JANUARY.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	24.4	68	—19	0.85
1893	26.0	71	—23	0.94
1894	21.9	63	—24	1.18
1895	23.0	60	—25	1.67
1896	28.4	66	—17	0.81
1897	26.1	68	—24	1.53
1898	16.9	69	—34	1.07
1899	27.9	70	—21	1.14
1900	31.6	70	—10	0.43
1901	28.2	64	—26	0.69
1902	26.5	74	—38	0.71
1903	27.0	66	—21	1.40
1904	23.3	68	—23	0.83
1905	28.9	71	—22	0.86
1906	25.3	70	—39	1.60
1907	28.0	66	—20	2.30

CORRECTIONS FOR NOVEMBER, 1906.

Aneth: Mean minimum temperature recorded 32.3°, should be 32.0°; mean temperature recorded 43.9°, should be 43.8°.

Ft. Duchesne: Mean minimum temperature recorded 21.3, should be 21.0°; mean temperature recorded 32.8°, should be 32.6°.

Experiment Farm: Mean minimum recorded 28.4°, should be 28.5°.

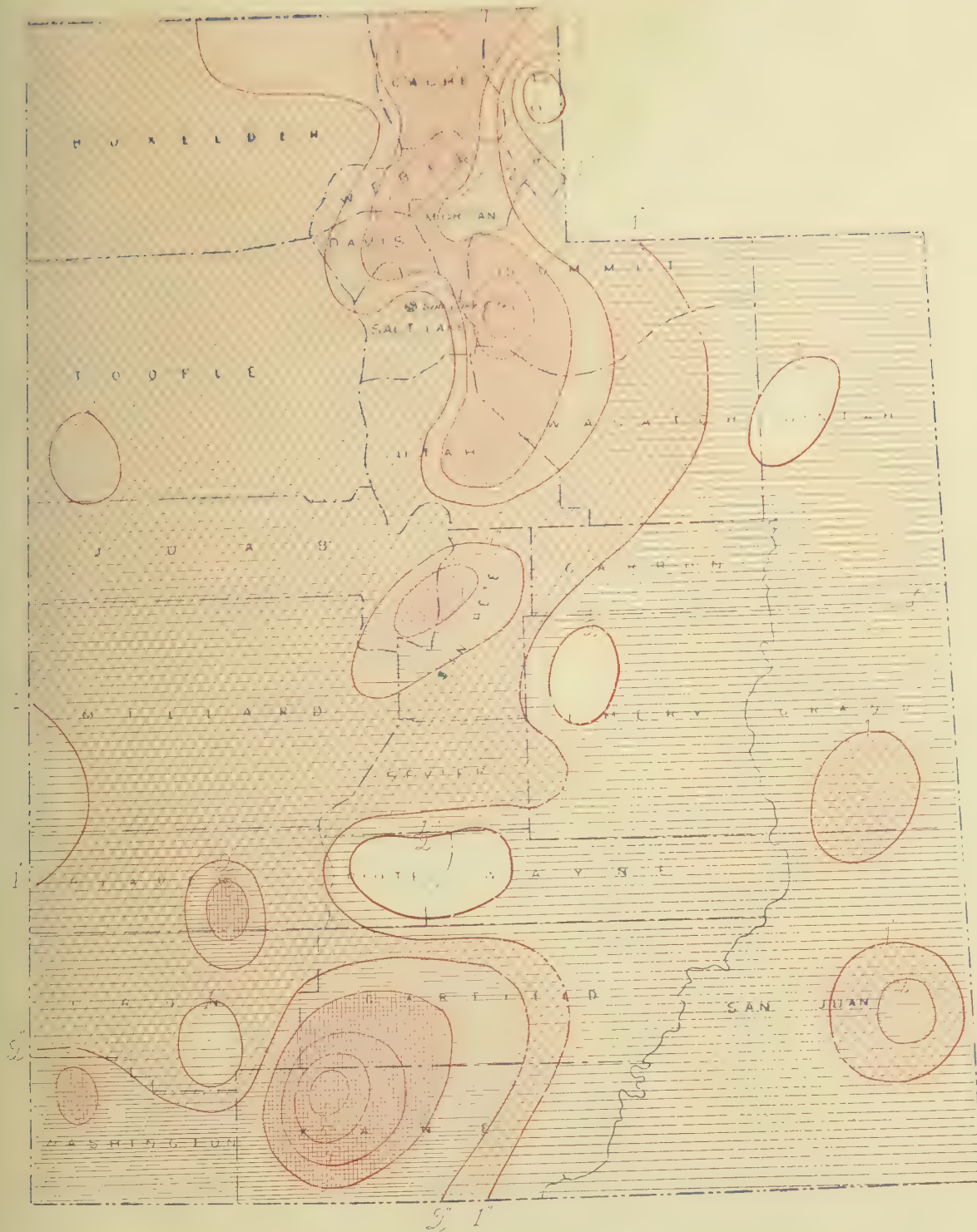
CLIMATOLOGICAL DATA, JANUARY, 1907.

Sections and stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Prevailing direction of wind	Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
NORTHERN.																					
Alta (near)	Utah	4,900	11								1.97	+0.61	0.67	11.0	8					W. W. Smith.	
Alpine	Boxelder	4,240	37	24.0	-0.8	51	28	10	23	31	1.50	+0.19	0.80	15.0	6	4	9	18	n.	T. B. Whitty.	
Archie	Davis	4,267	7	29.4	+0.9	48	*28	4	23	27	3.43	+1.31	0.73	34.2	13	5	5	21	n.	Agent So. Pacific R. R.	
Armore	Uinta	5,000	19	18.2	+6.5	41	7	-15	23	35	0.50	+0.12	0.30	5.0	3	18	10	3		Charles Boylin.	
Aspen	Wasatch	5,606	14	24.6	+3.6	46	4	-10	23	29	3.00	+1.03	0.55	48.0	19	5	4	22	s.	Post Surgeon.	
Aspen	Summit	5,301	8	24.8	+1.9	50	29	-15	23	47	3.35	+1.64	0.59	29.5	20	6	7	18	nw.	John Crook.	
Aspen	Weber	5,100	12								4.31	+2.60	0.72	49.0	11	5	2	24		William Brewer.	
Aspen	Boxelder	4,230	29								1.70	+1.10	0.60	17.0	5	1	12	18	w.	Lars Peterson.	
Aspen	Cache	4,507	16	20.5	-4.0	41	29	-15	23	27	4.85	+4.25			14					Agent So. Pacific Co.	
Aspen	Boxelder																			Agricultural College.	
Aspen	Rich	6,200	8	22.8	-0.1	44	*4	-5	23	32	3.10	+1.30	0.80	31.5	9	8	4	19	w.	Agent So. Pacific R. R.	
Aspen	Cache	4,848	12								3.68	+2.28	0.50		16					J. S. Moffat.	
Aspen	Morgan	5,080	3	26.4		46	*6	-11	*23	26	2.88		0.90	33.8	15	10	10	10	sw.	Fred Yeates.	
Aspen	Weber	4,310	6	27.7	+0.4	48	29	-1	23	27	4.30	+2.22	1.20	39.3	13	7	1	19	nw.	T. R. G. Welch.	
Aspen	Weber	4,310	37																	Enoch Farr.	
Aspen	Summit	7,800	10	23.0	-2.7	41	5	-1	2	22	10.96	+8.27	1.50	109.6	15	11	4	16		W. H. Chevers.	
Aspen	Bannock	4,483	7	24.5	+5.4	49	29	-2	16	26	1.24	-0.80	0.29	14.8	15	5	12	14	se.	J. M. Martin.	
Aspen	Rich		1								0.43		0.18	10.5	5	7	3	21	sw.	Weather Bureau.	
Aspen	Salt Lake	3	28.2			44	4	5	23	23	2.41		0.71		11					Wm. Rex.	
Aspen	Salt Lake	4,366	33	30.6	+2.7	50	29	10	23	21	1.75	+0.31	0.36	24.8	11	2	5	24	se.	Francis W. Bailey.	
Aspen	Boxelder	4,360	17	20.0	-4.2	47	29	-18	16	44	2.65	+1.41	0.60	26.0	10	6	7	18	n.	Section Center.	
Aspen	Wasatch																			Joseph Robbins.	
Aspen	Wasatch	5,507		19.0		39	*12	-10	23	35	1.30		0.45	13.0	7	4	14	13		A. B. Larson.	
Aspen	Tooele	4,900	11	34.6	+7.4	49	*4	9	23	24	1.87	+0.79	0.56		7	7	4	19		M. M. Smith.	
Aspen	Uinta		10	20.2	+0.6	48	7	-3	2	36	0.51	-0.07	0.40	5.1	4	15	0	16		I. J. Elkington.	
Aspen	Rich	6,500	11	18.2	+0.6	43	4	-19	23	39	1.00	+0.40	0.70	10.0	4	15	0	13		Joab Collier.	
Averages				24.2	+1.0						3.02	+1.62		34.4	11	7	6	18	n.	C. G. Youngberg.	
MIDDLE.																					
Black Rock	Millard	4,872	7	28.7		47	30	-6	2	36	1.85		0.90	14.2	7	13	8	10	s.	Willard Burbank.	
Castle Dale	Emery	5,500	8	21.4	-1.6	49	25	0	*7	36	0.00		0.00	0.0	0	26	0	5		James Jeffs.	
Crescent	Millard	4,541	13																	S. W. Western.	
Emery	Emery	6,260	7	25.5	+0.2	45	24	1	2	37	1.10	+1.06	0.50	11.0	3	5	0	26	sw.	H. C. Wickman.	
Emery	Millard	5,100	17	33.3	+3.7	57	*25	7	2	40	1.67	+0.47	0.46		8					J. J. Stierman.	
Emery	Millard		3	26.8		49	29	-5	22	40	0.64		0.30		6	8	14	9	s.	E. M. Smith.	
Emery	Tooele	5,277	7	26.7	-0.7	46	*6	4	2	35	2.00	+1.07	0.60	28.5	8	7	10	14	s.	Walter James.	
Emery	Mesa	4,608	16	35.0	+8.0	53	6	12	3	30	0.44	-0.17	0.12	1.2	8	6	7	18	nw.	Weather Bureau.	
Emery	Emery	4,080	10																	F. P. Fulmer.	
Emery	Tooele	7,500	3	24.2		49	4	-6	2	28	2.51		0.61	33.4	13	8	11	12	e.	J. S. Lawton.	
Emery	Sanpete		1																	R. H. Spencer.	
Emery	Juab	5,010	17	27.8	+4.0	45	*5	4	1	29	3.04	+1.68	0.80	24.3	12	7	11	13	sw.	William Brown.	
Emery	Sanpete	5,575	13	29.2	+4.0	47	*4	5	20	30	1.65	+0.66	0.65		7	0	26	5		W. M. Harmon.	
Emery	Utah	4,650	6	30.0	+3.5	45	31	7	20	28	1.23	+0.49	0.22	10.5	11	7	4	20	s.	D. C. Walkey.	
Emery	Sanpete	5,859	15	29.0	+1.7	52	5	4	1	30	2.27	+1.15	0.50	18.0	9	4	22	5		Web Greene.	
Emery	Juab		1								1.82		0.28	24.0	11	13	7	11		A. Madsen.	
Emery	Millard		1	28.1		50	29	2	2	32	1.80		0.50	18.0	6	7	14	10	sw.	J. Finlinson.	
Emery	Utah	4,637	1								3.51		0.75	33.0	14	5	5	21	sw.	D. L. Coombs.	
Emery	Utah	4,532	15	29.4	+2.8	45	*8	2	2	25	3.30	+2.10	0.70	24.0	14	7	6	18	sw.	W. K. Henry.	
Emery	Sevier	5,350	17	35.2	+9.0	59	23	12	*3	43	1.40	+0.75	0.50	5.0	4	21	5	5	sw.	S. Christensen.	
Emery	Millard	5,260	12	28.4	+2.0	50	31	-8	21	50	2.39	+1.20	0.88	19.0	11	6	4	21	sw.	Thomas Menmott.	
Emery	Utah	7,474	15								3.80	+2.41	0.80	38.0	13					Agent Rio Grande R. R.	
Emery	Utah	5,075	15	28.8	+3.8	53	*9	-3	*19	48	1.85		0.50	18.5	5	7	19	5	s.	Act. Rio Grande W. R. R.	
Emery	Juab		1	24.0		48	*9	-5	24	44										Mrs. W. A. Edwards.	
Emery	Utah		2																	W. A. Knight.	
Emery	Carbon	5,540	8																	E. E. Branch.	
Averages				28.1	+3.9						1.89	+1.30		20.0	9	9	10	12	sw.		
SOUTHERN.																					
Albany	San Juan	4,800	7	38.3	+8.4	56	*10	12	3	28	0.85	+0.26	0.50		6	12	11	8	w.	Miss S. Hubert.	
Albany	Beaver		2	42.2		66	26	14	4	45	1.20		1.20	12.0	1					A. B. Anderson.	
Albany	Iron		1	34.0		48	24	6	2	30	0.93		0.40	7.8	5	6	13	12	ne.	J. M. Foster.	
Albany	Garfield		6																	H. J. McCullough.	
Albany	Garfield	5,700	7	29.3	+4.1	50	29	1	3	37	2.90	+1.68	0.80	14.0	4	19	0	24		Geo. H. Barney.	
Albany	Washington		2	40.2		66	28	21	*2	35										Joseph T. Atkin.	
Albany	Beaver	7,318	13																	Prof. Albert Warren.	
Albany	Wayne	4,000	12																	J. C. White.	
Albany	San Juan		2	33.4		57	25	11	19	31	2.60		1.00	4.0	4	8	8	15	n.	Joseph D. Lyman.	
Albany	Garfield	3,000	8	40.4		59	*25	23	*23	33	0.53		0.30	0.0	2	16	12	3		F. W. Gibbons.	
Albany	Kane	4,925	7																	E. M. Ford.	
Albany	San Juan	7,000	7	28.4		46	*22	-1	3	27	0.60		0.60	6.0	2	14	10	5		Mrs. G. W. Carpenter.	
Albany	Wayne	7,000	15	22.6	+0.8	47	29	0	*2	40	0.00	-0.42	0.00	0.0	0					Michael Hansen.	
Albany	Piute	6,180	8	29.5	+0.3	54	29	-1	3	41	0.35	-0.45	0.09	3.3	10	13	8	10	s.	John W. Henry.	
Albany																				W. H. Hall.	
Albany	Grand	4,000	18	37.4	+8.4	54	*6	12	3	34	1.18	+0.54	0.34	2.0	8	6	11	14		Henry Crouse.	
Albany	Iron	5,479	7	24.0	-5.1	46	26	-8	2	37	1.63	+1.00	0.36	14.7	13	8	9	14	w.	Weather Bureau.	
Albany	Iron	5,970	16	30.0	+1.5	48	28	-2	2	33	1.15	+0.18	0.32	10.3	7	8	15	8	sw.	James Connell.	
Albany	Washington	5,907	10	25.0	-3.5	47	28	-17	2	55	2.63	+1.78	1.26		8	10	6	15	s.	J. H. Harrison.	
Albany	Sevier	7,000	5	26.7		53	22														

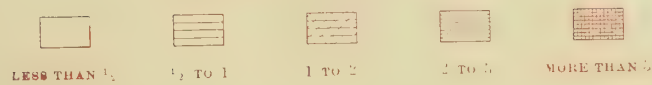
SOUTHERN.

† At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.

TOTAL PRECIPITATION FOR THE MONTH



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, JANUARY, 1907.

Sections and stations	Day of month																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Albino	.06		.03			.35	.16							*	.67		.09																	
Castle Rock	.10		.10	.02		.10	.10				.05	.30	.10	.10	.05		.15	.30								.05	.05	.20	.15					
Cornville	T.	T.			.80	.10				T.			.10			.20	.20									.10	.05	.20	.15				T.	
Farmington	.61	T.	.10	T.	T.	.10	.20			T.	.50		.31	.10	T.	.15	.12	.73								.10	.40	T.				T.	T.	
Ft. Duchesne	.37					T.	*	*	*	*	.30				.10	.10	*	*	*	.60														
Grantsville near	.87					*	*	*	*	*	.30				*	*	*	*	.60								.18							
Hobbs	.10	.05	*	.18	*	.20	.05	.05		T.	.02	.25	.25	.20	T.	.10	.05	.50	.05							T.	.30	.10	.55					
Homer	.12	.01	T.	.02	.07	.20	.19	.27		T.	.10	.15	.59	.09	.20	.12		.50	.15							.07	.20	.05	.24				.01	
Huntsville			.19		.62	.33				T.	*	*	*	1.32		.18		.72	.14							.15	.30		.16				.20	
Kelton	.20		.40			.60				.30		.20																						
Logan	.90		.08		*	*	.94			.10	.50	.55		.10	*	.51	.50							*	.47	.20								
Lucin																																		
Marion	.35			.05	T.	.09	.10	T.		T.	.20	.42	.40	.10	.20	T.	.18	.15	.35							.10	.10	.10						
Monticello	.20	T.				.20	.40	.10		T.	.20	.30	.80		.40		.50	.40								T.								
Mulville	.08	T.	.06	.10	.31	.27	.28				.01	.50	.42		.12	T.	.40	.11								.27	.14	.10					.18	
Morgan	.02	T.	T.	T.	T.	.00		.04	T.	T.	.25	.17	.23	.30	.14	T.		.90								.02	.28	.68	.24				.05	
Ogden No. 1							.89			.09	.30	.40	.50		.14	T.		*	1.20								1.10	.36	.22	.16			.08	
Ogden No. 2																																		
Park City	.45		.10		.50	1.50	1.20	.21		.10		1.50	1.10	1.00	1.10	1.20										.70			.20				10	
Pocatello, Idaho	.14	T.	.07	T.	.12	.11	T.				.11	.22	.01	T.	.04	.06		.08								.10	.03	.01	.10				.04	
Radiobigh	.02		T.	T.	.18							.15						.05	T.	T.	T.		.03		T.	T.	T.	T.	T.	T.	T.			
Salt Lake City	.71					.06	.05			T.	.17	T.	.42	.05	.06	.07		.58								.61		.03						
Salt Lake City	.24		T.	T.	T.	.02	T.			.11	.14	T.	.26		.18	T.	.04	.32	T.						.10	.26	T.	.08					T.	
Snowville			*	.60	.30		*	.50		.20		.30			.20			.20						.20	.10								.05	
Strawberry Valley																																		
Theodore	.20					.15	T.			.05				T.	.20	T.	.20	T.	T.							T.	T.		.45	T.	.05			
Tooele	.50					.02				.05			.52		.21		T.	.31									.20							
Verona near	.40					.03				.05			T.	.03																				
Woolfath	T.						.20						.70		.10																			
MIDDLE.																																		
Annabella near	.30				.30					.20			.40	T.															.26	T.	T.	.06		
Black Rock	.99	.10				.20				.10			.02	T.	T.	.10																		
Castle Dale																																		
Cedar Creek																																		
Deseret																																		
Emery		.50				.30				.30																								
Fillmore	.10	.01			T.					.01				T.	.43		.22	.26											.09	.10				
Garrison	.30				T.	T.	*	.08		.07				T.	T.	T.	.08		.06															
Government Creek	.60	T.			.12	.15				.07			.39		.15		.35								.10			.14						
Grand Junction, Colo.	.02	T.			.04	.01	.01	.12	T.									.06																
Green River																																		
Hatch near	.44		.03		.11	.61	.35	T.		.11	.06		.31	.03	.29	T.	.04	.08										.02						
Levan	.48				.10					.05	.16		.10	.80		.30		.21								.20		.21	.14	.26				
Manti	.10									T.	.20		.20	.10	.20		T.									T.	T.	T.	.65	T.	.20			
Mount Nebo	.17				.05	.05				.02	T.	.07	.20	.05		.22		.22								T.		.19	.06	.15				
Mount Pleasant										.10		.20	.30	.50	.30		.10								.30		.39	.20	.08					
Nephi	.19					.11				T.	.10		.12	.28		.12	.26									.66		.24	.10	.24				
Nephi near	*	*	.11			*	.04			*	.19		*	.21	*	*	.04	*	.18						*	.08		*	.25	*	.30			
Oak City	.50											.17				.30		.30											.11	.30				
Payson	.45	.10			.22	T.				.06	T.	.11	.20	.18	.25	T.	.75									T.	.05	.02	.62	.15	.29	T.		
Provo		.50		T.	.10	T.	.10			.10			.40	.10	.20	.10	.20	.30								.20	.20		.10	.70	T.	T.		
Richfield																.20	.30																	
Scipio	.17				T.	.27				.06	.02		.18	.88	T.	.25		.09								T.	T.	.02		.30		.15		
Solter Summit																																		
Sunniyale	*	.40		.20				.10								.05																		
Thistle			.20		.30	.20	.20		.20	.10	.20	.40	.20				.30	.80											.40	.30				
Trout Creek	.25				T.	.40	.10			T.			.50		.30																			
Utah Lake Pumping Station																																		
SOUTHERN.																																		
Alto	.93					.02			.03	.07								.20															.50	
Brewer	.20																																	
Cedar City	.16					.18										.18		.01																
Coyote																																		
Enterprise near	.67					*	1.02		*	.02		*	*	*	1.04		*	.06																
Escalante											.80			.60								</												

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

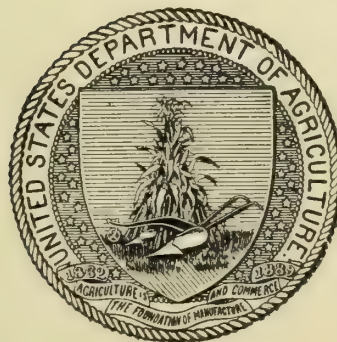
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

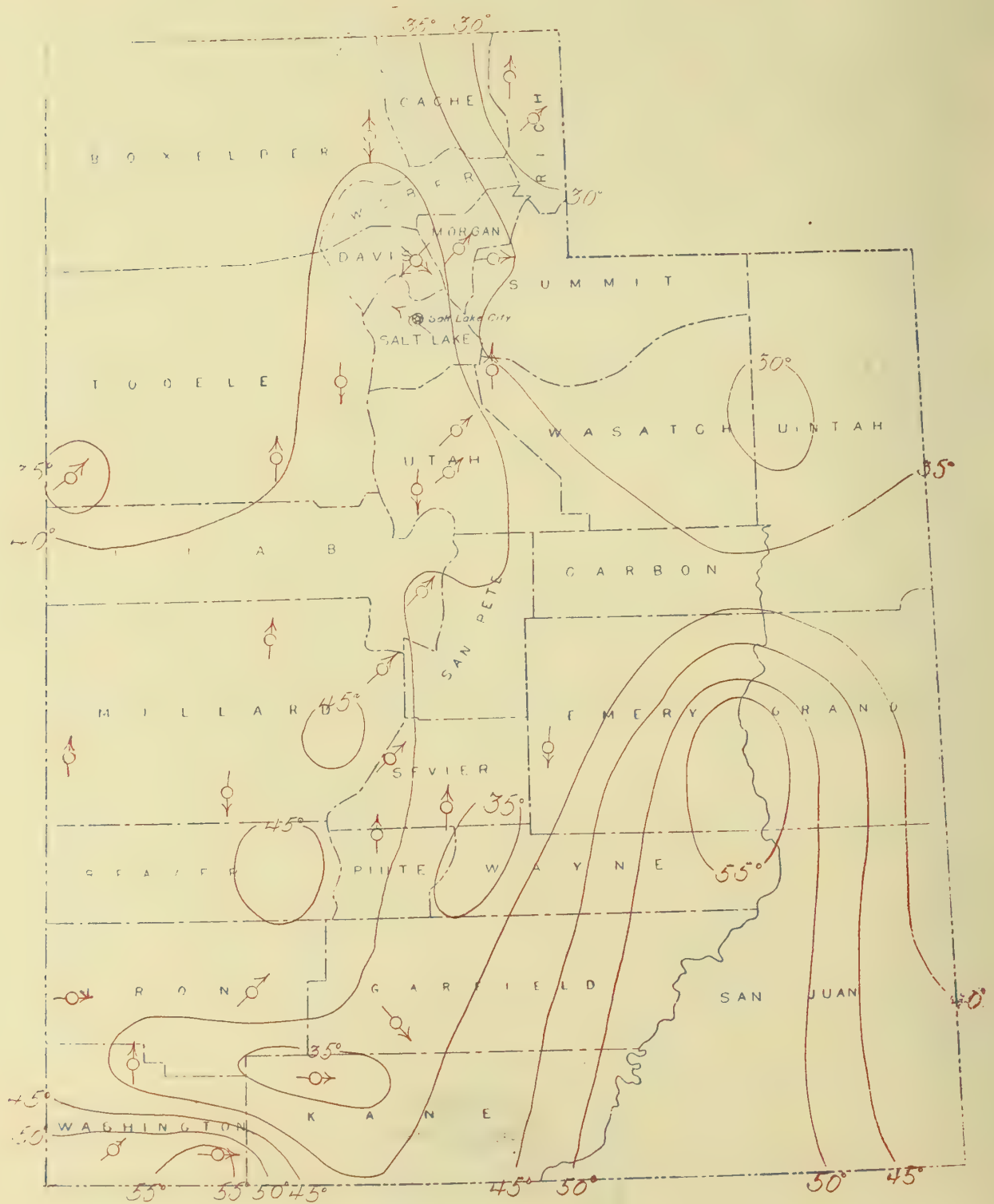
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
MARCH 23, 1907.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR THE MONTH.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, FEBRUARY, 1907. No. 2

GENERAL SUMMARY.

The most remarkable feature of the weather during the month was the prevailing warm, pleasant weather. Without exception, temperatures were much above the normal thruout the State.

The first few days of the month were generally wet, owing to the sluggish movement of a low barometric pressure over the middle Plateau. This was followed by a series of high pressure areas which caused clear skies and fair weather the greater part of the month. The latter part of the month was marked by unsettled weather, and numerous rains. With but very few exceptions, the precipitation was much above normal over the entire State. Reports from all sections showed that the ground was well moistened, and an abundant water supply assured for the coming season. Altho the precipitation was considerably above normal, the snowfall was comparatively light in nearly all sections.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 54 stations, was 40.4° , or 11.2° above the normal. The highest local monthly mean was 57.6° at Rockville; the lowest was 27.2° at Woodruff. The highest temperature recorded was 66° at Green River on the 15th; the lowest was 3° below zero at Pinto on the 28th, giving an absolute range for the section of 69° . The highest temperatures of the month were generally recorded on the 25th and 26th, and the lowest on the 28th.

PRECIPITATION.

The average precipitation, determined from the reports of 75 stations, was 1.95 inches, or 0.84 inch above the normal. The excess was greater over the northern and southern sections. The greatest monthly amount was 7.23 inches at Huntsville, and the least was a trace at Ft. Duchesne. The greatest precipitation in any 24 consecutive hours was 1.53 inches at Huntsville on the 4th. There was an average of 8 days with 0.01 inch or more of precipitation; 8 over the northern, 6 over the middle, and 9 over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 3,336; at Modena, 6,421; at Grand Junction, Colo., 2,704; and at Pocatello, Idaho, 6,304. The maximum velocity at Salt Lake City was 31 miles per hour from the west on the 25th; at Modena, 40 miles from the north on the 27th; at Grand

Junction, Colo., 23 miles from the southeast on the 26th; and at Pocatello, Idaho, 37 miles from the southwest on the 3rd.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 14; partly cloudy days, 5; cloudy days, 9. Determined from the records of automatic sunshine recorders, Salt Lake City had 51 per cent; Modena 79 per cent; Grand Junction, Colo., 55 per cent; and Pocatello, Idaho, 61 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 76 per cent, the lowest observed reading being 38 per cent on the 7th; at Modena, 71 per cent, the lowest observed reading being 26 per cent on the 14th; at Grand Junction, Colo., 63 per cent, the lowest observed reading being 26 per cent on the 13th and 16th; and at Pocatello, Idaho, 73 per cent, the lowest observed reading being 46 per cent on the 11th.

FEBRUARY SNOWFALL BULLETIN.

The precipitation during the month was principally in the form of rain, with the exception of scattered storms at the close of the month, in which small amounts of moist snow fell in the valleys, with considerably greater quantities falling on the old snow in the mountains. As a result of the unusually warm, wet weather, scarcely any snow was seen in the valleys during the entire month, and the rains soaked into the unfrozen ground to a depth of several feet. In addition to this very favorable condition of the ground, and the water supply for immediate spring requirements, the snow stores in the mountains were large, and were in very good condition for preservation until well into the summer. Early in the winter much drifting was caused by numerous windstorms, and the February warm weather and the copious rains melted and packed the snow almost as solid as ice. There was a marked uniformity of the reports as to the condition of the snow in all watersheds, and the prospects for the season's water supply thruout the State. The concensus of opinion indicated an unusually large amount of water for agricultural purposes.

OBSERVERS' REMARKS.

Alpine.—The weather during the month was unusually mild and wet.—T. B. Whitby.

Aneth.—The month of February was remarkably warm and pleasant, being more like spring than winter.—Sophie Hubert.

Black Rock.—Very fine weather prevailed during the greater portion of the month.—Willard Burbank.

Deseret.—February was remarkably warm, and all vegetation was green.—S. W. Western.

Emery.—Unusually warm weather prevailed during the first half of the month, but the last half was cold and blustery.—H. C. Wickman.

Escalante.—Spring-like weather characterized the month until the heavy snowfall at the close.—Geo. H. Barney.

Government Creek.—February was a very fine month, with the exception of the last few days.—Walter James.

Green River.—The weather was generally warm, like springtime.—F. P. Fullmer.

Heber.—February was an unusually mild month.—John Crook.

Henefer.—From the 5th to the 16th spring weather prevailed. The rainfall during the month was heavier than usual, and the snowfall was lighter.—William Brewer.

Huntsville.—From the 6th to the 16th the weather was very fine and spring-like; the remainder of the month was quite stormy.—Lars Petersen.

Kanab.—This was the warmest February we have had in a good many years.—E. M. Ford.

Marion.—Spring-like weather prevailed up to the 17th. Blackbirds arrived in this vicinity on the 10th.—James Woolstenhulme.

Marysville.—The first half of the month was very fine and warm for the season. This was the driest February since 1903.—John W. Henry.

Meadowville.—February was a very mild month, with more precipitation than usual. Very little snow overspread the valley.—J. S. Moffat.

Mt. Nebo.—The temperature during the month was very moderate, the days being generally clear.—D. C. Walkey.

Pinto.—The weather during the month was generally very pleasant.—John H. Harrison.

Ranch.—February was a very pleasant month.—J. W. Seaman.

Sunnyside.—This was a stormy, damp month. There was plenty of water in prospect for irrigating.—Henry Cullum.

Theodore.—February was a pleasant, spring-like month.—M. M. Smith.

Tooele.—This was a very warm February. The ground was only partly covered with snow at the end of the month.—Isaac J. Elkington.

MISCELLANEOUS PHENOMENA.

Halos, lunar.—Marysville, 21; Parowan, 20; Pinto, 20; Tropic, 20.

Halos, solar.—Henefer, 21; Marysville, 14, 20; Pinto, 14; Ranch, 21.

Coronae, lunar.—Government Creek, 22, 24; Henefer, 24; Marysville, 20, 23.

Sleet.—Castle Rock, 1, 2; Huntsville, 1, 17, 25; Levan, 17; Marion, 1-4; Marysville, 3, 26; Meadowville, 3, 22, 26; Morgan, 2; Randolph, 1; Sunnyside, 27.

High winds.—Deseret, 1-3, 22, 25-28; Emery, 6; Garrison, 1-3, 16; Ibapah, 1, 2; Meadowville, 5; Mt. Nebo, 25; St. George, 26; Salt Lake City, 1, 2, 22, 25.

Fog.—Heber, 18, 20; Ibapah, 26; Meadowville, 13-16; Park City, 18; Ranch, 1, 3, 23; Randolph, 9-11, 23-25; St. George, 5, 18; Salt Lake City, 9, 15, 16; Theodore, 1; Tropic, 17; Woodruff, 14-16.

Hail.—Aneth, 27; Black Rock, 26; Cedar City, 26; Enterprise, 26; Government Creek, 22, 23; Ibapah, 3, 25; Kanab, 26; La Sal, 17; Levan, 23, 26; Marion, 23; Marysville, 17, 26; Nephi, 26, 28; Parowan, 23; Pinto, 26.

Thunderstorms.—Aneth, 17; Green River, 17, 27; Henefer, 2, 23, 26; Kanab, 17, 26; La Sal, 17; Morgan, 3; Ogden, 2, 22, 25; Park City, 3; Provo, 3; Ranch, 26; Richfield, 26; Salt Lake City, 2; Theodore, 27; Tropic, 21.

LATE REPORTS FOR JANUARY.

Deseret: Mean monthly temperature, 29.7°; highest, 50° on the 29th and other dates; lowest, -4° on the 2nd; greatest daily range, 37°; total precipitation, 1.66 inches; greatest in any 24 consecutive hours, 0.40 inch; total snowfall, 6.0 inches; number of days with 0.01 inch or more of precipitation, 7; clear days, 8; partly cloudy days, 3; cloudy days, 20; prevailing wind direction, south.

Ogden No. 2: Mean monthly temperature, 30.7°; highest, 52°

on the 29th; lowest, 5° on the 23rd; total precipitation, 4.2 inches; greatest in any 24 consecutive hours, 0.90 inch; total snowfall, 42.0 inches; number of days with 0.01 inch or more of precipitation, 14; clear days, 3; partly cloudy days, 3; cloudy days, 25.

Frisco: Mean monthly temperature, 32.0°; highest, 62° on the 30th; lowest, 5° on the 2nd; greatest daily range, 38°; total precipitation, 1.12 inches, distribution not known.

Verdure: Total precipitation, 2.75 inches; number of days with 0.01 inch or more of precipitation, 3.

Panguitch: Total precipitation, 0.80 inch; greatest in any 24 consecutive hours, 0.30 inch; number of days with 0.01 inch or more of precipitation, 4; clear days, 10; partly cloudy days 0; cloudy days, 21.

MEAN TEMPERATURE AND TOTAL PRECIPITATION AT SCIPPIO MILLARD COUNTY, UTAH.

TEMPERATURE.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1895.....	.....	.....	.....	.....	.....	62.3	68.4	68.4	.....	46.9	32.0	21.3	.....
1896.....	31.4	32.0	38.7	40.0	47.4	67.3	66.9	69.2	61.5	48.8	32.2	31.2	47.2
1897.....	25.4	28.0	31.4	47.0	58.8	63.1	68.0	69.2	61.2	46.2	39.8	19.9	46.5
1898.....	14.6	29.5	32.8	49.2	52.2	64.1	71.4	71.5	60.6	.....	34.4	20.1	.....
1899.....	26.4	28.4	39.0	47.4	50.1	62.3	73.6	66.2	62.4	43.5	39.4	25.0	47.0
1900.....	32.0	33.2	41.4	45.4	57.8	68.2	70.2	68.2	54.6	46.2	39.6	28.4	48.8
1901.....	28.6	32.8	25.5	45.9	57.4	61.4	76.9	71.6	58.6	50.3	41.8	27.9	49.1
1902.....	26.1	35.6	35.8	48.7	56.3	67.1	68.2	69.1	60.0	50.3	37.8	30.9	48.8
1903.....	29.6	13.4	38.2	45.8	52.4	66.8	71.8	71.2	58.9	48.0	38.9	26.2	46.8
1904.....	19.4	36.0	40.3	48.1	55.1	62.6	70.2	68.4	60.2	48.6	39.0	29.4	48.1
1905.....	29.8	32.6	45.0	50.6	51.9	63.4	67.4	68.2	59.4	45.4	35.4	19.1	47.4
1906.....	25.6	25.5	36.8	46.2	52.9	59.4	69.0	66.5	58.5	46.6	36.0	34.7	46.5
1907.....	28.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	26.5	29.7	36.8	46.7	53.6	64.0	70.2	69.0	59.7	47.3	37.2	26.2	47.0

PRECIPITATION.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1895.....	0.58	.....	2.12	.....	0.33	0.42	0.28	0.38	0.83	1.35	0.80	.....	.....
1896.....	1.22	0.10	1.51	1.06	1.36	2.82	1.59	0.89	1.53	1.14	0.40	12.62	.....
1897.....	2.60	2.61	3.26	1.26	0.73	0.21	0.42	0.38	1.39	3.34	1.55	1.49	19.24
1898.....	1.89	1.62	3.41	0.35	2.83	1.10	0.19	0.44	0	.....	1.36	1.10	.....
1899.....	1.40	2.28	3.85	0.51	0.70	0.43	0.58	1.03	0	2.66	0.83	1.85	15.52
1900.....	1.04	0.20	0.10	2.09	0.01	0.10	T.	0.37	1.17	0.57	1.17	0.10	6.92
1901.....	0.60	2.43	1.02	1.07	0.83	0.27	1.12	2.67	0.10	1.31	0.51	0.76	12.09
1902.....	0.80	1.61	2.25	1.17	0.84	0.08	0.07	0.21	1.35	0.56	2.31	0.47	11.75
1903.....	1.51	0.86	1.59	1.83	1.96	0.36	0.27	0.17	0.98	0.67	0.48	0.33	11.01
1904.....	0.82	1.74	3.21	0.27	2.01	0.28	0.50	0.51	0.30	0.95	0	1.99	12.50
1905.....	0.67	4.70	2.58	2.00	3.08	0.09	0.43	1.01	2.88	0.53	2.66	0.50	21.13
1906.....	1.73	1.08	3.97	3.07	2.05	0.71	0.46	1.64	1.68	0.17	1.99	1.44	20.99
1907.....	2.39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mean.....	1.40	1.75	2.41	1.33	1.49	0.33	0.61	0.86	0.93	1.14	1.28	0.94	14.44

COMPARATIVE STATE DATA FOR FEBRUARY.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	32.4	73	-34	0.77
1893	26.6	70	-32	1.35
1894	20.9	68	-34	1.11
1895	25.5	74	-33	1.25
1896	31.0	74	-16	0.46
1897	27.0	63	-21	2.35
1898	29.1	79	-21	0.47
1899	28.8	77	-50	1.73
1900	32.2	73	-24	0.57
1901	31.0	75	-26	1.90
1902	34.1	74	-20	0.87
1903	16.6	67	-39	0.75
1904	34.2	89	-26	1.53
1905	30.5	73	-35	1.67
1906	33.7	84	-15	0.88
1907	40.4	86	-3	1.95

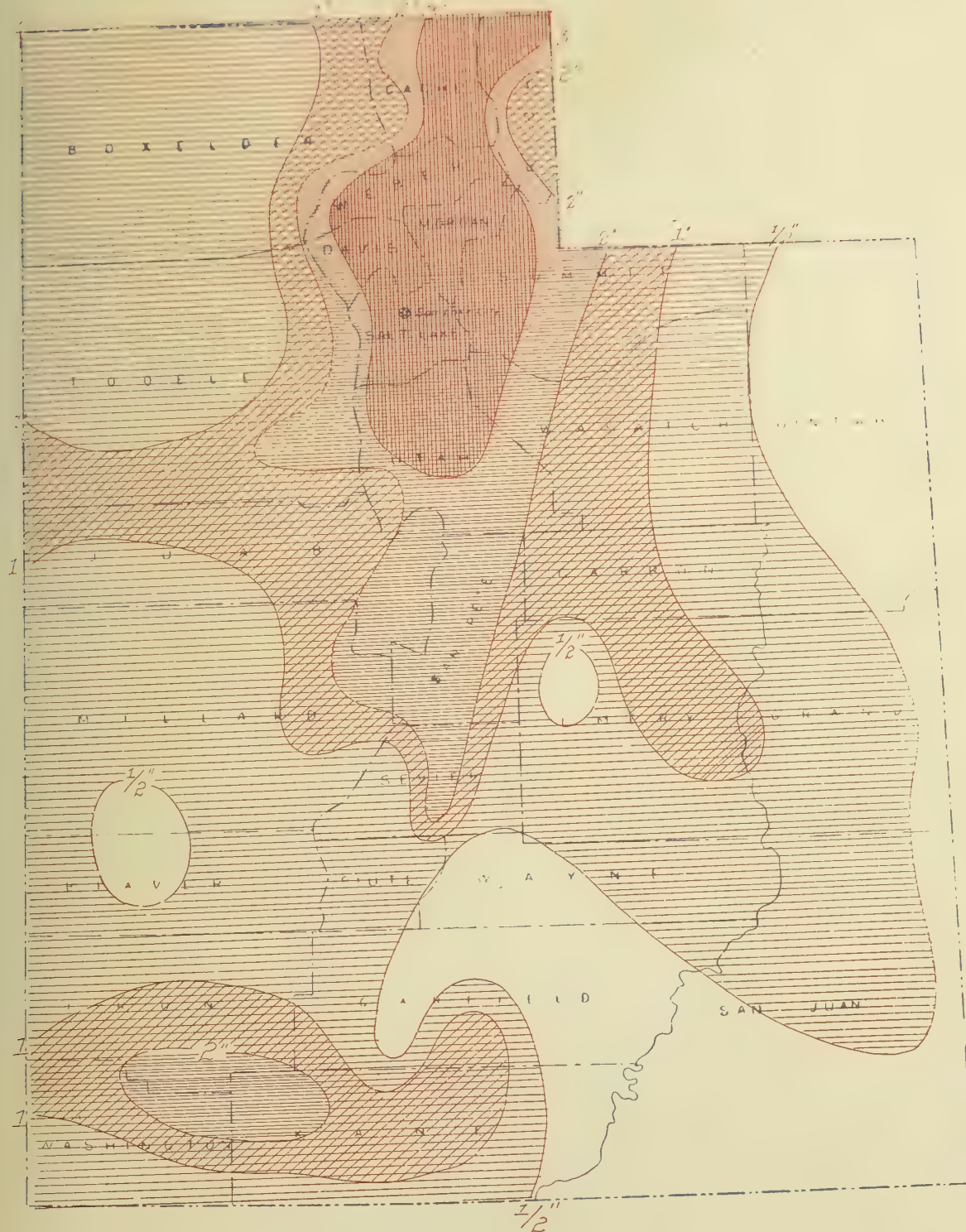
CLIMATOLOGICAL DATA, FEBRUARY, 1907.

Sections and stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches.					Sky.				Observer.		
				Mean	Departure from the normal.	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal.	Greatest in 24 hours	Total snowfall (unmelted)	Days with 0.1 inch or more	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.	
NORTHERN.																					
Boxelder	Utah	4,900	11								3.96	+2.02	0.87	0.0	6					T. B. Whitby.	
Boxelder	Utah	4,240	37	39.3	+9.4	50	8	23	29	31	1.36	+0.14	0.86	2.0	3	19	2	11	n. s.	Agent So. Pacific R. R.	
Davis	Utah	1,207	7	14.5	+10.0	57	28	25	22	27	8.26	+2.91	1.20	7.0	11	16	2	10	n. s.	Charles Boylin.	
Uinta	Utah	5,000	19	28.1	+8.9	51	20	5		32	T.	-0.44	T.	T.	0	17	7	4		Post Surgeon.	
Wasatch	Utah	5,606	14	35.2	+12.8	55	28	10		38	3.96	+1.86	0.95		13	13	5	19	s.	John Crook.	
Summit	Utah	5,301	7	36.6	+12.6	52	28	14		38	5.12	+3.08	1.20	5.5	14	12	0	13	w.	William Brewer.	
Weber	Utah	5,100	12								7.23	+4.97	1.83	7.0	19	12	1	12		Lars Petersen.	
Boxelder	Utah	4,230	28								0.66	+0.03	0.30	3.0	4	14	12	2	sw.	Agent So. Pacific Co.	
CACHE	Utah	4,507	16	37.6	+12.4	51	*24	20	28	23	2.70	+1.52			11					Agricultural College	
Boxelder	Utah		1																	Agent So. Pacific R. R.	
Rich	Utah	6,200	8	29.2	+7.6	40	22	9	11	22	6.31	+4.47	1.50	2.5	10	12	5	11		J. S. Moffat.	
CACHE	Utah	4,848	12								1.63	+0.40	0.51		9					Fred Yeates.	
MORGAN	Utah	5,680	3	39.4		91	5	15		45	6.15		1.23	7.0	12	16	1	10	sw.	T. R. G. Welch.	
Boxelder	Utah	4,310	6	41.2	+11.0	55	20	25	28	23	1.37	+2.51	0.87	4.0	10	13	6	9	e.	Enoch Farr.	
Weber	Utah	4,316	37	43.2	+10.4	59	4	27	*14		3.52	+1.98	1.09	4.0	6	12	1	15	s.	W. H. Chevers.	
Summit	Utah	7,800	10	31.8	+5.0	53	5	7		28	31	4.45	+1.88	0.70		12	15	6	7		J. M. Martin.
Bannock	Idaho	4,483	7	39.4	+11.3	55	13	22	28	29	1.71	-0.14	0.54	9.1	7	13	6	9	se.	Weather Bureau.	
Rich	Idaho		1								1.12		0.65	14.0	5	14	3	11	sw.	Wm. Rex.	
SALT LAKE	Utah	3	40.4			58	25	28	*7	19	2.08		0.61		9					Francis W. Bailey.	
SALT LAKE	Utah	4,366	33	42.9	+10.0	62	5	26	28	26	3.45	+2.17	0.92	0.5	13	12	6	10	se.	Section Center.	
Boxelder	Utah	4,300	17	37.4	+11.1	59	*13	12	11	44	0.90	-0.01	0.35		5	12	8	8	s.	Joseph Robbins.	
Wasatch	Utah		1																	A. B. Larson.	
Wasatch	Utah	5,597		31.0		53	5	10	28	31	3.00		0.43	5.0	5	10	9	8		M. M. Smith.	
Tooele	Utah	4,900	11	42.0	+10.1	60	*22	21	28	24	1.98	+0.87	1.13		7	15	3	10	n.	I. J. Elkington.	
Uinta	Utah		11	33.4	+10.7	58	20	12	*12	30	0.41	-0.30	0.36	0.5	2	18	0	10		Joab Collier.	
Rich	Utah	6,500	10	27.2	+8.6	45	20	2	11	27	2.00		0.50	9.5	7	18	0	10		C. G. Youngberg.	
Averages				39.7	+10.1						3.10	+1.66		4.5	8	14	5	9	s.		
MIDDLE.																					
Rock	Utah	4,872	7	42.7	+13.3	65	*6	20	8	44	0.78	-0.46	0.18	4.0	6	11	10	7	n.	Willard Burbank.	
Dale	Utah	5,500	8	37.7	+10.9	63	5	16	16	47	0.40	-0.37	0.15		4	10	12	0		James Jeffs.	
Emery	Utah	4,541	13	41.4	+11.4	69	6	16	28	44	0.82	-0.15	0.21		5	13	1	14	s.	S. W. Western.	
Emery	Utah	6,260	7	38.2	+10.3	60	5	20	*1	33	0.90	+0.05	0.50		2	6	6	16	n.	H. C. Wickman.	
Millard	Utah	5,100	17	45.6	+13.3	71	8	14	28	42	1.06	+0.45	1.10		5					J. J. Starley.	
Millard	Utah		3	42.0		64	8	14	28	40	0.55		0.30		2	18	6	4	s.	E. M. Smith.	
Tooele	Utah	5,277	7	40.4	+10.7	57	5	11	28	29	2.00	+0.8	0.86	8.0	7	15	5	8	s.	Walter James.	
Mesa	Utah	4,608	16	43.4	+12.1	61	16	24	28	32	1.66	+0.47	0.45	4.2	7	14	5	0	se.	Weather Bureau.	
Emery	Utah	4,080	10	55.8	+25.1	86	15	40	*3	36	1.20	+0.53	0.50	3.0	4	20	0	8		F. P. Fullmer.	
Tooele	Utah	7,500	3	34.5		56	8	7	28	39	1.79		1.05	20.6	9	12	6	10	sw.	J. S. Lawton.	
Sanpete	Utah		1																	R. H. Spencer.	
Juab	Utah	5,010	17	40.0	+12.6	57	*11	11	28	37	2.70	+1.11	0.68	4.5	8	13	3	12	sw.	William Brown.	
Sanpete	Utah	5,575	13	39.0	+15.2	60	5	18	28	35	2.11	+0.61	0.40		9	2	17	2		W. M. Harmon.	
Utah	Utah	4,650	6	41.4	+11.5	60	*6	21	28	31	1.09	-0.17	0.32	3.0	10	13	5	10	n.	D. C. Walkey.	
Sanpete	Utah	5,859	15	40.0	+10.3	57	*11	19	28	34	2.41	+0.52	0.67		6	13	3	12		Web Greene.	
Juab	Utah		1								2.27		0.45	T.	12	13	2	13		A. Madsen.	
Millard	Utah		1	42.6		64	*5	20	28	38	1.80		0.63		9	14	6	8		J. Finlinson.	
Utah	Utah	4,637	1								3.18		0.67	4.0	10	11	2	15	sw.	D. L. Coombs.	
Utah	Utah	1,532	15	41.1	+11.1	59	*11	24	11	35	3.10	+1.65	0.80	3.0	9	12	5	11	sw.	W. K. Henry.	
Sevier	Utah	5,350	17	43.2	+11.8	69	8	7	28	46	0.85	+0.06	0.74	6.0	3	22	0	6	sw.	S. Christensen.	
Millard	Utah	5,260	12	41.2	+11.0	61	*5	14	28	43	2.35	+0.53	0.50	T.	11	9	7	12	sw.	Thomas Memmott.	
Utah	Utah	7,474	14								1.82		1.00	18.2	4	15	4	9		Agent Rio Grande R. R.	
Utah	Utah	5,075	15	40.4	+11.4	61	16	18	7	44	2.40	+0.99	0.90	4.0	7					Agt. Rio Grande W. R. R.	
Utah	Utah		1	41.4		67	5	15	28	39	0.51		0.51	8.0	1	10	14	4		Mrs. W. A. Edwards.	
Carbon	Utah		2																	W. A. Knight.	
Carbon	Utah	5,540	8																	E. E. Brauch.	
Averages				41.5	+12.7						1.64	+0.47		6.2	6	13	5	10	sw.		
SOUTHERN.																					
San Juan	Utah	4,800	7	44.4	+10.7	66	5	20	15	45	0.41	-0.26	0.16		4	15	11	2	w.	Miss S. Hubert.	
Beaver	Utah		2	48.2		75	19	17	27	42										A. B. Anderson.	
Iron	Utah		1	42.0		60	*5	12	28	38	1.31		0.93	14.0	2	7	17	4		J. M. Foster.	
Garfield	Utah		6																	H. J. McCullough.	
Garfield	Utah	5,700	7	41.3	+11.2	62	5	22	*8	34	1.58	+0.56	1.40	14.0	3	19	0	9		Geo. H. Barney.	
Washington	Utah		2	48.2		73	6	22	9	45						13	0	15		Joseph T. Atkin.	
Beaver	Utah	7,318	13	41.5	+8.2	62	6	18	28	33	0.42	-0.33	0.22							Prof. Albert Warren.	
Wayne	Utah	4,000	12																	J. C. White.	
San Juan	Utah		2	42.0		62	13	24	28	32	0.55		0.30	T.	2	18	2	8	n.	Joseph D. Lyman.	
Garfield	Utah	3,000	8	51.4	+10.0	72	5	29	8	37	0.45	-0.29	0.35		2	20	7	1		F. W. Gibbons.	
Kane	Utah	4,925	7	38.6		67	20	11	28	47	1.00	-0.64	0.50		4	17	6	5		E. M. Ford.	
San Juan	Utah	7,000	6	38.0	+10.8	54	*11	19	26	31	0.45		0.23	4.5	2	14	10	1		Mrs. G. W. Carpenter.	
Wayne	Utah	7,000	14	31.6	+7.7	52	5	10	17	36	0.20	-0.42	0.20	2.0	1					Michael Hansen.	
Piute	Utah	6,180	8	40.3	+10.9	64	5	14	28	47	0.53	-0.74	0.21	3.0	9	11	7	10	s.	John W. Henry.	
																				W. H. Hall.	
Beaver	Utah	5,070	10								0.70	-0.30	0.54	5.6	2					Henry Crouse.	
Grand	Utah	4,300	18	46.0	+10.7	69	5	20	8	42	0.50	-0.11	0.37								

MAXIMUM AND MINIMUM TEMPERATURES, FEBRUARY, 1907.

[illegible]

TOTAL PRECIPITATION FOR THE MONTH



DAILY PRECIPITATION, FEBRUARY, 1907.

Sections and stations.	Day of month.																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NORTHERN.																																		
Alpine		.87	.75													.81							.32	.87		.34								
Castle Rock	.40	1.15	.35	.50	.22	.22										T.							.86	T.	.40	.20	.25							
Corinne	.20	T.														T.										.30								
Farmington	.30	.56	.28	1.20	.70											.23	.20					.01	.58	.10		1.10	T.							
Ft. Duchesne	*	.05	*		.03											.06				*		.14		*	.56									
Grant'sville (near)		.70	.45	.95	.40	.06										T.	.10			T.	*	.50	.10		*	.60	.10							
Heber	.60	1.03	.42	1.20	.62	.20										.01	.04	.01			.04	.30	.20			.42	.03							
Henefer	.72	1.15	1.37	1.53	.29											.24	.24			T.	T.	T.	1.38	.07		.44	.04							
Huntsville		.30														.10						.14			.12									
Kelton	*	1.09	.09	*	.07											.10		.02				.33	.40		*	.59								
Logan	.04	.23	.54	T.	.30	.07										T.	.22	T.	T.	.05	.25	.10			.80	.21	T.							
Lucin	*	*	2.35	1.50	.80	.50											.01				*	.80			.35									
Marion	.51	.23	.27	.05	.02											.13			.05		.24	.13												
Meadowville	.56	.80	.68	.84	1.23	.23										.14		.18	.03	.48		.44	.54		.21									
Millville	.05	.76	.43	.87	.27	.03										.42					.56	.77				.21								
Morgan	*	.64	*	.54	.66											.37				*	1.09	*	.22											
Ogden No. 1	.20	.50	.70	.50	.30											.10				.05	.10	.35		.55	.70	.40								
Ogden No. 2	.46	.54	.15		.05												.21	T.	T.	T.		.28		T.	.21	.02								
Park City	.05	.16	T.	.05	T.						.05	T.					.18			T.	T.	.35	.13		.61	.03								
Pocatello, Idaho	T.	.20	.18	.07	.33											T.	.15			T.	T.	.29	.05		.30	.56	T.	T.						
Randolph	.27	.31	.22	.92	.14											.15						.02	.29	.05		.10								
Saltair Beach	*	.35																																
Salt Lake City		T.	.01													T.					.06	.12		T.	.43	.07								
Snowville		.22	.10													.21		.03		T.	.13	.16			1.13									
Strawberry Valley																.05					.36				T.	T.								
Theodore	.40	.50	.10	.25	.20											.05					.50													
Tooele																																		
Vernal (near)																																		
Woodruff																																		
MIDDLE.																																		
Annabella (near)		.02														.12						.03	.07		.21	.43								
Black Rock		T.														.18					.03	.15	.13		.15	.14								
Castle Dale	*															T.	T.				.10	.05		.10	.15									
Clear Creek																																		
Deseret		.20														.21				.10	T.				.14									
Emery	.40															T.	T.				T.				T.		.50							
Fillmore		.29	.02													T.	T.				T.	.02	.53			1.10								
Garrison																T.	T.				T.	.25			.30	T.								
Government Creek	.24	.30	.10													.33					.06	.40		.86	.04									
Grand Junction, Colo.	.04	.15	T.													.50	.30				.02		.05			.05	.42							
Green River	*	.30														.07	.03			T.	.22	.05				.05								
Ibapah (near)		.20	.01													.24				.06	.09	.37			T.	1.05	.11	.05						
Levan	*	.68	*	.43	.19											.24				.06	.09	.37			T.	.50	.08							
Manti		.28	.27	.08	T.	.04										T.	.35			T.	.16	.05		.32	.11									
Mount Nebo	T.	.28	.07	.03												.02	.01			T.	.19	.21			.48									
Mount Pleasant	.67	.65	.21													.24	.16			.04	.32	.45		.65	.10	.17	.01							
Nephi	.02	.35	.22	.19												*	*	.27		T.					*	*	.14							
Nephi (near)	*	*	*	.95												*	*	.27		T.					*	*	.14							
Oak City		.13	.12													.63	.16			.04	.15	.39		.07	.11									
Payson	*	.03	.67	.47	.30											T.	.15	T.	.10	.19	.35		.58		.34									
Provo	.10	.25	.80	.45												.40	T.			T.	.20	.40		.20	.30	T.								
Richfield	T.	T.														T.				T.	.07	.04			.74									
Scipio	.06	.15	.25	.09	T.											.39	.18			.06	.19	.35		.13	.50	T.								
Soldier Summit	T.	1.00	.02													1.00				T.	.20	.20		.60										
Sunnyside																.30			.50			.10			T.	.30								
Thistle	.20	.50	.10														.30				.90			.20	.20									
Trout Creek																																		
Utah Lake Pumping Station																																		
SOUTHERN.																																		
Aneth																.14						.16	.06			.05								
Beaver																					*	.38			T.	.93								
Cedar City																																		
Coyote																																		
Enterprise (near)																.43					1.02				.21									
Escalante																						.15			.03	1.40								
Frisco																					.22													
Grayson																	.25									T.								
Hite																					.10	T.			.35									
Kanab																.50					.10				.10	.30								
La Sal																*	.22																	

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

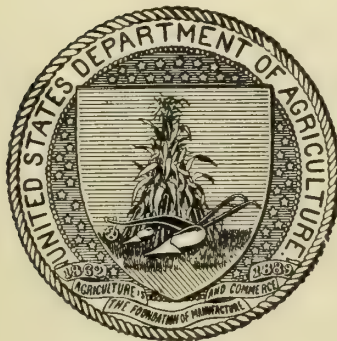
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

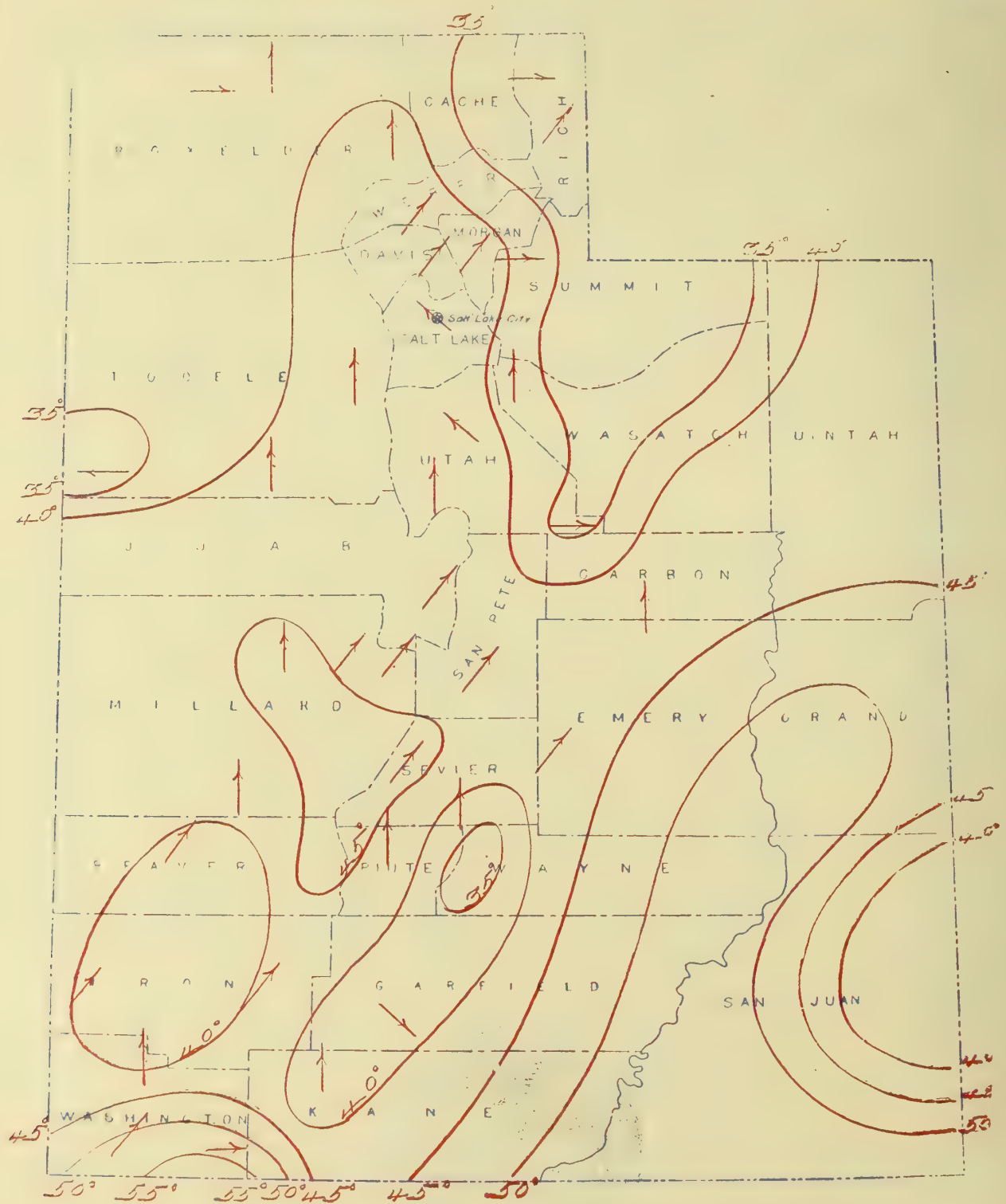
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

APRIL 26, 1907.

MEAN TEMPERATURES AND PREVAILING WINDS, MARCH, 1907.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, MARCH, 1907. No. 3

GENERAL SUMMARY.

The temperature during the month averaged above the normal thruout the State generally, the departures ranging from about normal to nearly 10° above, tho in general the excess of temperature was quite equally distributed over the State. The temperature was quite uniformly above the normal thruout the month, with the exceptions of a few days at the beginning of the second decade and about the middle of the last decade, when the daily means fell to 10° , or more, below the normal.

The average precipitation over the State was slightly in excess of the normal for the month, the departures ranging from more than an inch below, to as much as two inches above the normal. The heaviest precipitation fell over the northern section of the State, particularly in the mountain districts. Over the middle section, the precipitation was quite uniformly distributed, but was considerably below the normal, particularly to the eastward of the mountains. In the southern section of the State the distribution of precipitation was decidedly uneven, some stations reporting very little, or no precipitation, while others reported an excess, making an average of slightly above the normal. Stormy days were very general thruout the month, particularly in the northern portion, the only dry periods being a few days about the middle of the month, and at the close.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 59 stations, was 42.4° , or 4.4° above the normal. The highest local monthly mean was 56.8° at Rockville; the lowest was 31.7° at Ibapah [near]. The highest temperature recorded was 87° at Wellington on the 23rd; the lowest was 2° below zero at Pinto on the 28th, giving an absolute range for the section of 89° . The highest temperatures of the month were generally recorded on the 18th and 19th, and the lowest on the 14th.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 1.65 inches, or 0.15 inch above the normal. The excess was pronounced over the northern, and slight over the southern sections; a deficiency was reported over the middle portion. The greatest monthly amount was 4.08 inches at Huntsville, and the least was none at Ft. Duchesne and Loa. The greatest precipitation in any 24 consecutive hours was 1.32

inches at Payson on the 12th. There was an average of 4 days with 0.01 inch or more of precipitation; 11 over the northern, 5 over the middle, and 6 over the southern portions.

WIND.

The prevailing directions of the wind for the section were south and southwest. The total number of miles recorded at Salt Lake City was 6,088; at Modena, 11,011; at Grand Junction, Colo., 4,550; and at Pocatello, Idaho, 7,469. The maximum velocity at Salt Lake City was 44 miles per hour from the south on the 5th; at Modena, 52 miles from the southwest on the 21st; at Grand Junction, Colo., 33 miles from the south on the 21st; and at Pocatello, Idaho, 36 miles from the southwest on the 21st.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 8; partly cloudy days, 10; cloudy days, 13. Determined from the records of automatic sunshine recorders, Salt Lake City had 32 per cent; Modena 69 per cent; Grand Junction, Colo., 52 per cent; and Pocatello, Idaho, 33 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 56 per cent, the lowest observed reading being 25 per cent on the 18th; at Modena, 72 per cent, the lowest observed reading being 32 per cent on the 31st; at Grand Junction, Colo., 56 per cent, the lowest observed reading being 13 per cent on the 25th; and at Pocatello, Idaho, 77 per cent, the lowest observed reading being 39 per cent on the 15th.

MARCH SNOWFALL BULLETIN.

Two heavy snow storms swept over the State during the month: one during the second week, and the other during the last week. Each of these storms caused about six inches of moist snow in the valleys, and considerably greater quantities in the mountains. The weather was comparatively warm, and the snow disappeared from the lower levels very quickly, and that in the mountains was greatly solidified. Much of the precipitation was in the form of rain, and was accompanied by abnormally high temperatures and unusually high average wind velocities; consequently the old snow in the mountains became exceedingly solid, being generally of the consistency of ice. This very favorable condition of the snow, and the large amount of it, in addition to the saturated condition of the unfrozen ground, indicates that the season's water supply will be greater than it has been for several years.

OBSERVERS' REMARKS.

Aneth.—The month was warmer than is usual for March, tho the precipitation was somewhat below the average.—Sophie Hubert.

Deseret.—March was remarkable for high winds, the prevailing direction being south.—S. W. Western.

Emery.—The first half of the month was mild and pleasant, but during the latter half stormy weather prevailed.—H. C. Wickman.

Escalante.—March was warm and pleasant with the exception of the latter part.—Geo. H. Barney.

Heber.—The month was warm, with more than the average rainfall. A heavy gale on the 21st did considerable damage.—John Crook.

Henefer.—March was very stormy, and spring work was greatly delayed.—Wm. Brown.

Huntsville.—The month was unusually stormy and cloudy.—Lars Petersen.

Kanab.—March was a very windy month, considerable damage being done by high winds.—E. M. Ford.

Levan.—The month was generally mild but very cloudy.—Wm. Brown.

Marysville.—March was very windy and cloudy.—John W. Henry.

Meadowville.—The month was very stormy. The snow was all gone in the valleys.—J. S. Moffat.

Mount Nebo.—The month was characterized by much cloudiness with high winds from the south.—D. C. Walkey.

Ranch.—Water for irrigation purposes was plentiful. The snow was practically all gone.—J. W. Seaman.

Sunnyside.—Cloudy and stormy weather prevailed during March.—Henry Cullum.

Theodore.—The month was very windy with much cloudy weather.—M. M. Smith.

MISCELLANEOUS PHENOMENA.

Halo, lunar.—Marion, 5.

Coronae, lunar.—Marysville, 17, 24; Tropic, 1.

Fog.—Black Rock, 13; Emery, 9; Henefer, 7; Ibapah, 2.

Halos, solar.—Hite, 20, 22; Marysville, 15; Mount Nebo, 31; Pinto, 2, 3, 21.

Thunderstorms.—Emery 5; Farmington, 20, 25, 26; Kanab, 7; Meadowville, 21; Morgan, 21, 26; Nephi, 26; Parowan, 8; Wellington, 5, 8.

Sleet.—Castle Rock, 5, 6, 11, 22; Cedar City, 7; Deseret, 26; Enterprise, 26; Government Creek, 10, 11; Huntsville, 1, 6, 9; Meadowville, 1, 6, 22, 24, 28; Nephi, 11; Pinto, 25.

Hail.—Black Rock, 27; Cedar City, 27; Deseret, 26; Enterprise, 25; Farmington, 25; Government Creek, 8; Ibapah, 20; Kanab, 7; Levan, 9, 26; Marion, 25; Marysville, 8, 11, 12, 22; Meadowville, 1, 6, 21; Nephi, 11, 26, 27; Pinto, 12; Scipio, 27; Snowville, 21; Tropic, 23, 26; Vernal, 12; Wellington, 5, 8, 21.

High winds.—Aneth, 11, 12, 20–22, 24, 25; Black Rock, 1–6, 10, 11, 15–26; Deseret, 1, 3, 5, 6, 9, 10, 12, 15–26, 28; Enterprise, 10–12, 15–17, 19–24; Garrison, 1, 3–6, 9–11, 15–26; Government Creek, 17–23; Grayson, 12, 21, 24, 25; Heber, 21; Henefer, 10, 11, 18–25, 31; Huntsville, 13, 19, 21; Ibapah, 4, 18–21; La Sal, 10; Levan, 10, 11, 20–22, 24–26; Marion, 21, 23; Marysville, 3, 5, 9, 10, 18–25; Minersville, 25; Mount Nebo, 5, 10, 18–25; Nephi, 2, 5, 10, 19, 22–25; Parowan, 18, 19; Pinto, 21, 22, 24, 25; Ranch, 25; Randolph, 21; Richfield, 20–25; Scipio, 16–18, 22–25; Snowville, 23; St. George, 25, 27; Theodore, 6, 8, 11–13, 20, 21, 24–26, 28, 29; Thistle, 27; Tooele City, 17–26; Tropic, 20, 24, 25, 27; Wellington, 19–22, Woodruff, 21, 24.

PHENOLOGICAL RECORDS, 1906.

EMERY, EMERY COUNTY.

Latitude 38° 57'; Longitude 111° 16'; Elevation 6,269 feet.

(H. C. Wickman, Observer).

The Balm of Gilead showed first leaves March 20th: the Lombardy Poplar began to leaf April 10th. Leaves appeared on the Black Locust May 22nd. The leaves on these trees began to color in the autumn as follows: Balm of Gilead September 20th; Lombardy Poplar October 9th; and Black Locust October 25th. All trees were bare November 12th.

Fruit trees leafed during April: Cherry and plum on the 9th; apple on the 16th; and peach and pear on the 28th. The first blossoms appeared in May: Apple on the 3rd; peach on the 10th; pear on the 15th; and plum on the 20th; the full bloom obtained from a week to ten days later. Fruit harvest began September 15th. The yield was very good.

The preparation of soil for wheat and oats began March 21st, and planting began about April 20th. The yields were satisfactory, except that there was considerable rust in the wheat. Potatoes were planted June 10th, and made a very good crop. Alfalfa was sown May 21st, and the seed crop was quite satisfactory.

MONTHLY AND ANNUAL MEAN TEMPERATURES AT SALT LAKE CITY, UTAH.

Yr.	Jan.	Feb.	Mar.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1874	.....	.....	.....	.....	.....	67	78	75	62	56	43	34	.....
1875	30	34	35	49	59	68	74	75	68	58	42	36	53
1876	30	36	37	50	57	69	76	72	65	55	41	27	52
1877	27	34	47	49	56	65	77	76	64	52	41	32	52
1878	30	38	47	49	56	68	77	78	61	49	44	30	52
1879	28	40	49	53	58	66	77	75	68	52	36	29	53
1880	28	26	34	47	54	66	74	73	64	52	30	35	48
1881	31	38	42	54	60	71	76	74	60	51	31	34	52
1882	24	27	37	47	57	67	75	77	65	48	36	35	49
1883	24	24	47	46	57	70	76	77	70	46	39	32	51
1884	28	31	41	48	58	69	74	73	59	53	42	35	51
1885	28	37	46	54	57	65	76	74	65	55	44	34	52
1886	29	41	38	48	62	69	78	76	63	52	31	35	52
1887	33	31	47	49	61	69	75	73	66	52	43	29	53
1888	23	38	40	55	59	68	77	75	71	54	42	36	53
1889	21	30	48	55	59	70	78	77	61	54	39	40	53
1890	25	34	40	50	61	65	78	73	65	49	41	36	51
1891	29	31	38	50	60	62	73	74	65	53	44	29	51
1892	26	34	43	47	55	66	76	75	70	52	42	28	51
1893	28	28	39	46	55	67	75	73	63	52	39	36	50
1894	29	26	41	48	61	64	75	75	61	53	46	31	51
1895	30	30	41	51	58	64	73	75	64	54	38	26	50
1896	31	37	40	46	51	70	74	74	64	54	37	36	52
1897	29	31	34	49	63	66	72	75	66	51	43	27	50
1898	21	36	36	54	54	67	76	77	66	48	37	25	50
1899	31	30	41	51	53	65	76	70	67	49	46	29	51
1900	36	34	48	49	61	74	75	74	63	53	45	35	54
1901	34	35	40	50	63	65	80	76	63	56	46	33	53
1902	28	39	38	50	59	69	72	75	64	55	41	34	52
1903	32	20	42	48	55	70	74	77	62	53	42	30	50
1904	26	36	41	50	57	66	74	74	66	53	44	33	52
1905	33	34	44	52	54	68	77	76	65	48	42	25	52
1906	28	34	40	49	56	62	76	73	64	53	39	38	51
Av.	28.6	33.0	41.3	49.8	57.7	67.2	75.6	74.8	64.6	52.3	40.6	32.3	51.5

COMPARATIVE STATE DATA FOR MARCH.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	40.0	83	4	1.52
1893	35.6	87	—19	2.05
1894	36.6	85	—22	1.66
1895	37.0	87	—15	1.24
1896	38.0	88	—7	0.99
1897	32.0	79	—16	2.22
1898	34.2	80	—14	1.24
1899	38.5	84	—3	2.46
1900	43.9	86	6	0.19
1901	36.8	78	—2	0.84
1902	34.9	73	—9	1.28
1903	37.3	80	—32	1.19
1904	39.9	90	—10	2.33
1905	42.2	83	0	1.76
1906	38.0	86	—34	3.14
1907	42.4	87	—2	1.65

CORRECTIONS.

JANUARY.

Fort Duchesene, maximum temperature and date, recorded 41 on the 7th, should be 42° on the 13th.

Hite, total snowfall recorded none, should be trace.

Manti, mean maximum temperature for month recorded 38.9°, should be 38.5°. Monthly mean temperature recorded 29.2, should be 29.0°.

FEBRUARY.

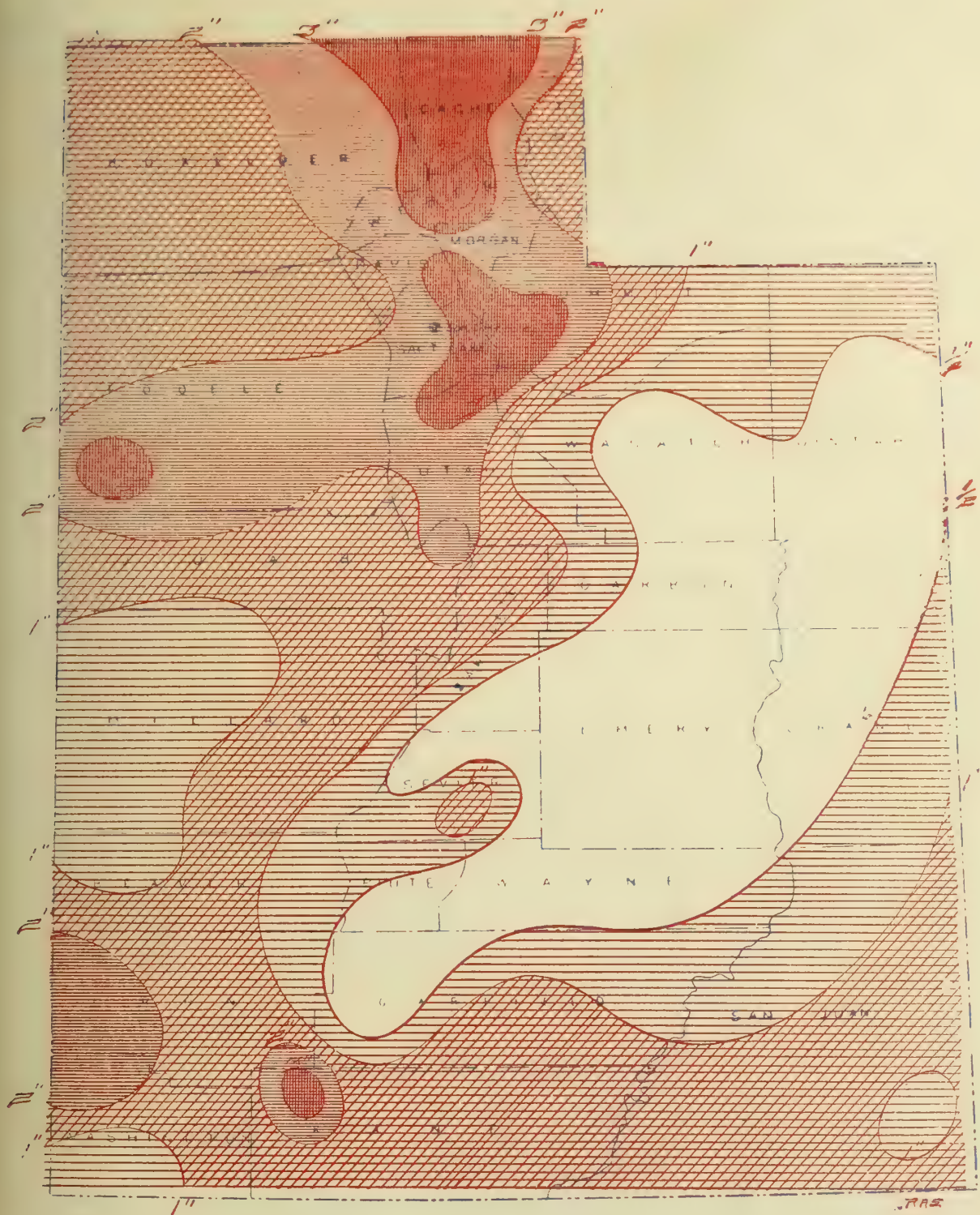
Grayson, maximum temperature on the 9th, recorded 51°, should be 60°. Mean monthly maximum should be 54.8°, and the mean monthly temperature should be 42.2°.

CLIMATOLOGICAL DATA, MARCH, 1907.

Stations	Counties	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches.						Sky.				Prevailing direction of wind	Observers
				Mean.	Departure from the normal.	Highest	Date.	Lowest	Date.	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall, in melted.	Days with at least one inch or more	Number clear days	Number partly cloudy days	Number cloudy days			
NORTHERN.																					
Utah	Utah	4,900	11																		T. B. Whitby.
Boxelder	Boxelder	4,210	37	41.3	+ 4.1	60	17	23	27	30	3.50	+1.62	1.13	5.0	9	11	3	12	16	S.	Agent So. Pacific R. R.
Davis	Davis	4,207	7	43.2	+ 3.1	68	*18	23	27	26	3.25	+0.78	1.20	20.0	9	6	10	15	SW.	Charles Boylin.	
Uinta	Uinta	5,000	19	42.2	+ 6.5	75	20	15	*1	40	0.00	-0.66	0.00	0.0	0	11	11	9	S.	Post Surgeon.	
Wasatch	Wasatch	5,606	14	38.0	+ 4.7	61	10	3	14	40	3.20	+1.07	1.06	27.0	11				S.	John Crook.	
Summit	Summit	5,301	2	40.4	+ 5.5	69	18	12	*14	45	2.76	+0.69	0.63	14.0	21	5	9	17	W.	William Brewer.	
Weber	Weber	5,100	12								4.08	+1.39	0.78	14.0	13	4	6	21		Lars Petersen.	
Boxelder	Boxelder	4,230	29								0.23	-0.28	0.10	2.0	3	3	17	11	W.	Agent So. Pacific Co.	
CACHE	CACHE	4,597	16	38.3	+ 3.6	64	18	19	27	31	3.81	+1.68			17					Agricultural College.	
Boxelder	Boxelder	4,200	8																	Agent So. Pacific R. R.	
Rich	Rich	6,200	8	33.6	+ 5.0	53	19	14	*15	28	3.80	+2.03	0.50	20.5	14	9	6	16	W.	J. S. Moffat.	
CACHE	CACHE	4,848	12								3.15	+1.12	0.61		23					Fred Yates.	
Morgan	Morgan	5,080	4	41.2		68	18	15	*14	41	2.43		0.55	12.0	12	9	15	7	SW.	T. R. G. Welch.	
Weber	Weber	4,310	6	43.5	+ 3.7	65	31	24	27	30	3.50	+0.39	0.79	6.8	13	7	12	12	SW.	Enoch Farr.	
Weber	Weber	4,310	37	48.5	+ 7.3	68	18	27	14		2.53	+0.81	0.60	9.5	9	4	24	3	S.	W. H. Chevers.	
Summit	Summit	7,800	10																	J. M. Martin.	
Bannock	Bannock	4,183	7	39.0	- 2.1	60	18	26	27	22	4.31	+2.14	1.61	14.3	18	3	11	17	SE.	Weather Bureau.	
Rich	Rich	4,200	2								1.04		0.35		9	11	4	13	SW.	Wm. Rex.	
Salt Lake	Salt Lake	3	41.6			71	18	23	14	21	1.88		0.52		8					Francis W. Bailey.	
Salt Lake	Salt Lake	4,306	33	44.5	+ 3.1	70	19	23	14	29	2.35	+0.32	0.99	15.5	12	8	3	20	SE.	Section Center.	
Boxelder	Boxelder	4,300	17	38.2	+ 2.3	61	31	1	26	38	2.55	+0.99	0.50		14	5	11	15	S.	Joseph Robbins.	
Wasatch	Wasatch		1	32.2		54	20	2	14	35						3	1	18		A. B. Larson.	
Wasatch	Wasatch	5,507		40.6		70	19	17	1	36	0.25		0.12	1.0	7	3	15	13		M. M. Smith.	
Tooele	Tooele	4,900	11	42.6	+ 3.4	68	*18	16	14	38	2.68	+0.65	1.18		7	10	7	14	S.	I. J. Elkington.	
Uinta	Uinta	4,900	12	43.6	+ 4.0	79	19	18	15	33	0.76	-0.17	0.30		4	10	0	21		Joab Collier.	
Rich	Rich	6,500	10	31.0	+ 8.8	60	18	12	*2	30	1.00	-0.42	0.20	7.5	7	13	6	18		C. G. Youngberg.	
Utah	Utah			40.6	+ 4.8						2.34	+0.64		11.1	11	7	10	14	S.		
MIDDLE.																					
Rock	Millard	4,872	7	44.2		73	*19	14	13	38	1.50		0.40	8.0	9	7	7	17	S.	Willard Burbank.	
Dale - T3	Emery	5,500	8	43.8	+ 6.0	74	19	13	14	41	T.	-0.44	T.		0	9	20	0		James Jeff.	
et	Millard	4,541	13	46.0	+ 5.8	78	16	15	14	45	1.00	+0.11	0.40	11.0	4	3	16	12	S.	S. W. Western.	
ore	Emery	6,260	7	43.6	+ 9.8	69	18	21	28	39	0.34	+0.12	0.34		1	0	1	30	SW.	H. C. Wickman.	
son	Millard	5,100	17	45.2	+ 2.7	75	31	20	*1	43	1.34	-0.66	0.51		5					J. J. Starley.	
ut Creek	Millard		4	42.7		71	10	10	27	28	0.90		0.35		5	13	8	10	S.	E. M. Smith.	
Junction, Col.	Tooele	5,277	7	40.9	+ 3.6	63	*17	6	13	32	2.22	-0.35	1.00	19.0	7	6	10	15	S.	Walter James.	
River	Mesa	4,668	16	46.8	+ 3.3	81		25	14	42	1.14	+0.31	0.37	2.6	9	5	13	13	HW.	Weather Bureau.	
(near)	Emery	4,080	10																	F. P. Fullmer.	
	Tooele	7,500	4	31.7		54	*17	5	26	38	3.52		0.90	32.8	13	8	12	11	E.	J. S. Lawton.	
T2	Juab	5,010	17	41.8	+ 5.6	67	*17	13	14	37	1.21	-0.92	0.74	8.9	5	7	11	13	SW.	William Brown.	
	Sanpete	5,575	13	42.0	+ 4.2	69	19	14	14	31	0.42	-1.28	0.30		2	0	30	0	SW.	W. M. Harmon.	
obo	Utah	4,650	6	44.6	+ 4.6	69	18	15	14	38	1.12	-0.50	0.70	10.0	6	4	9	18	S.	D. C. Walkey.	
asaut - T1	Sanpete	5,859	15	41.1	+ 4.2	72	18	13	13	40	1.41	-0.23	0.60	11.0	3	6	19	6		Web Greene.	
ity	Juab		2								2.26		0.82	25.2	7	10	5	16		A. Madsen.	
on	Millard		1	44.8		71	19	14	13	36	1.47		0.60		6	7	10	14	SW.	J. Finlinson.	
T1	Utah	4,637	2								2.74		1.32	18.0	11	3	4	24	SW.	D. L. Coombs.	
eld	Utah	1,532	15	43.4	+ 3.7	68	*17	13	14	25	2.80	+1.22	0.90	24.0	9	2	7	22	SE.	W. K. Henry.	
r Summit	Sevier	5,350	17	46.0	+ 3.9	81	19	17	28	48	0.06	-0.97	0.06		1	23	0	8	SW.	S. Christensen.	
Creek	Millard	5,260	12	41.8	+ 4.0	70	19	12	14	40	1.41	-0.85	0.84	T.	10	2	8	21	SW.	Thomas Memmott.	
ake Pmp. Sta	Utah	7,174	15	34.1	+ 5.7	56	18	10	28	34	1.55	-0.30	0.40	14.0	5	2	29	0	W.	Agent Rio Grande R. R.	
ngton	Utah Lake	5,075	15	43.5	+ 6.2	70	*19	9	13	52	0.80	-0.88	0.30	8.0	3	8	12	11		Ag. Rio Grande W. R. R.	
erages	Juab		2	43.0		73	18	17	28	44	1.05		0.30	10.5	5	7	20	4		Mrs. W. A. Edwards.	
	Utah		2																	W. A. Knight.	
	Carbon	5,540	8	44.7	+ 7.2	87	23	14	29	69	0.05	-0.50	0.05	0.0	1				S.	Melville Branch.	
Utah	Utah			42.5	+ 4.6						1.27	-0.48		13.4	5	7	10	14	SW.		
SOUTHERN.																					
San Juan	San Juan	4,800	7	51.4	+ 6.1	83	19	19	14	37	0.72	+0.03	0.41	2.0	4	17	12	2	W.	Miss S. Hubert.	
Beaver	Beaver		2	46.8		67	*7	21	1	38	0.60		0.60		1					A. B. Anderson.	
Iron	Iron		2	41.8		70	19	13	28	28	1.58		0.35	7.5	7	5	14	12	ne.	J. M. Foster.	
Garfield	Garfield		6																	H. J. McCullough.	
Garfield	Garfield	5,700	7	41.8		75	19	15	1	41	1.06		0.63		7	20	0	11		Geo. H. Barney.	
Washington	Washington	7,318	3	51.3		80	19	23	12	38	0.60					10	4	17		Joseph T. Atkin.	
Beaver	Beaver	7,318	13	39.0	+ 0.6	66	19	18	*18	41	0.60	+0.05	0.39		2				SW.	Prof. Albert Warren.	
Wayne	Wayne	4,000	12																	J. C. White.	
San Juan	San Juan		2	44.4		78	19	18	13	44	1.23		0.55	1.0	4	12	6	13	S.	Joseph D. Lyman.	
Garfield	Garfield	3,000	8	53.7	+ 3.3	80	19	29	14	38	0.51	+0.03	0.30	T.	2	18	10	3		F. W. Gibbons.	
Kane	Kane	4,925	7	40.3		75	19	9	13	45	1.30	+0.43	0.70		5	7	10	14		E. M. Ford.	
San Juan	San Juan	7,000	7	40.2	+ 5.6	70	19	10	14	32	0.20	-0.54	0.00	0.0	0	1	4	13	2		Mrs. G. W. Carpenter.
Wayne	Wayne	7,000	15	25.0	+ 3.3	64	19	8	14	35	0.00	-0.54	0.00	0.0	0					Michael Hansen.	
Piute	Piute	6,180	8	42.0	+ 4.3	71	*18	8	14	45	0.61	-1.05	0.20	2.3	10	5	10	16	S.	John W. Henry.	
Beaver	Beaver		10																	W. H. Hall.	
Grand	Grand	5,070	10								1.76	+0.09	0.70	7.0	7				SW.		
Iron	Iron	4,300	18	52.6	+ 6.5	84	19	24	14	38	0.92	+0.07	0.25	2.5	8	6	19	6		Henry Crouse.	
Iron	Iron	5,479	7	39.6	+ 2.8	70	19	10	28	35	2.23	+1.32	0.86	8.2	8	5	12	14	SW.	Weather Bureau.	
Washington	Washington	5,970	10	41.4	+ 3.0	75	19	9	28	39	1.61	-0.24	0.								

53.24	60.31	60.33	63.53	56.43	55.39	62.39	60.31	58.35	61.40	59.52	55.39	49.25	55.10	61.38	67.20	75.32	82.45	85.39	77.46	71.54	66.41	62.47	71.63	73.63	66.39	55.35	58.31	57.25	65.28	68.61	63.63	
53.26	60.33	61.20	62.28	56.32	65.32	60.32	60.32	58.32	65.31	65.30	66.32	49.25	55.10	61.38	67.20	75.32	82.45	85.39	77.46	71.54	66.41	62.47	71.63	73.63	66.39	55.35	58.31	57.25	65.28	68.61	63.63	
53.27	60.33	61.20	62.28	56.32	65.32	60.32	60.32	58.32	65.31	65.30	66.32	49.25	55.10	61.38	67.20	75.32	82.45	85.39	77.46	71.54	66.41	62.47	71.63	73.63	66.39	55.35	58.31	57.25	65.28	68.61	63.63	
45.27	47.39	39.39	49.43	15.35	43.28	48.29	47.39	43.29	47.39	47.36	43.28	38.26	47.39	47.36	58.34	62.40	67.31	61.33	65.36	65.42	55.37	54.34	53.45	49.44	48.20	34.20	38.13	39.27	61.39	63.50	45.32.1	
45.15	54.26	56.26	51.34	48.37	48.30	50.26	48.26	50.25	53.27	54.35	43.28	47.25	50.16	52.23	61.25	70.20	70.27	75.36	60.35	62.43	55.36	59.25	65.27	64.36	50.27	46.20	44.23	57.22	60.23	61.29	55.3.2	
52.35	64.32	72.42	64.31	60.37	60.38	64.37	64.37	60.38	64.37	64.33	54.23	52.23	59.24	52.28	68.35	76.45	82.50	86.48	68.49	70.36	64.41	70.48	70.43	67.39	53.37	53.37	50.38	56.38	74.38	75.45	55.3.3	
48.23	50.26	49.25	51.26	52.27	53.28	53.27	54.30	53.20	58.20	60.25	54.23	60.25	59.28	57.21	59.25	63.30	66.35	66.35	58.20	64.31	50.19	50.19	53.30	53.30	30.31	33.19	33.19	54.20	30.30	30.30	25.25	
46.20	56.28	61.31	63.30	55.32	48.30	55.26	55.26	52.28	55.20	64.30	35.28	42.18	50.20	55.21	61.28	68.32	75.45	78.42	70.44	70.44	68.34	56.27	70.48	68.22	68.32	48.26	44.24	55.22	57.28	67.31	59.29	45.28
50.31	58.13	70.32	67.44	57.40	53.35	57.40	53.35	77.40	65.58	53.20	49.50	46.00	61.20	65.13	73.38	80.58	74.50	86.44	80.47	74.45	77.46	67.40	74.10	52.58	53.19	50.38	57.42	50.38	71.36	77.37	60.40	58.28
53.16	57.32	61.31	58.32	56.30	51.24	53.22	51.24	48.23	54.19	53.20	49.50	46.00	50.11	55.18	63.30	70.28	74.50	75.33	69.33	58.34	58.34	62.17	64.38	61.25	68.13	46.16	46.12	58.13	63.22	67.26	57.62	60.50
45.14	47.28	45.21	40.23	45.24	40.23	40.23	40.23	47.25	49.21	51.24	47.24	34.18	42.11	50.22	56.25	63.32	63.41	70.41	65.42	59.41	54.35	54.35	54.20	50.36	52.20	36.16	36.11	41.10	54.16	54.17	47.32	58.25
48.33	51.32	49.22	59.30	46.30	40.24	45.18	44.21	46.22	47.23	42.24	37.13	35.12	40.15	51.10	30.25	61.31	64.36	66.34	66.34	39.25	54.20	54.20	50.36	52.20	36.20	36.16	36.11	41.10	54.16	54.17	47.32	58.25
55.25	54.33	62.32	55.39	50.35	52.27	54.20	50.21	55.19	55.27	50.33	40.25	40.25	52																			

TOTAL PRECIPITATION, MARCH, 1907



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, MARCH, 1907.

Sections and stations.	Day of month.																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTHERN.																																
Alpine	.31					.26	.21	.23	.37		1.13						T.			.19						.60		.20				
Castle Rock	.08	.10	.06	.05	T.	T.	.05	.68	T.		.20	.10	.41			.10	.25	.05		.45		.20		T.	.10	.15		.18	.10			
Corinne	.09				T.				.02	T.	T.	1.20	.50				T.			.05						.08	.01		T.			
Farmington		.20																														
Ft. Duchesne																																
Grantsville (near)																																
Heber		.57		.10	.05	.20			.05		.57	1.00					.13			.37		.15	.08	.02	T.	.02	.40		.02	.01		
Henefer	.01	.63		.09	.03	.01	.07	T.	.01	.04	.33	.25	.04			.54	.10			.24	.26					.78		T.	.23			
Huntsville	.12	.06			.47	.13	.47	T.	.23	.50	.12															.10						
Kelton	T.	*			.03					.10	*	.07				.09									*	1.14			.02	.18		
Logan	*	.31	.08		.02	*	.56		.06	*	.61	*	.07										.40									
Lucin																																
Marion	T.	.52	.10		.02	T.	T.	T.	T.	.10	1.00	1.21	T.			T.	.02		T.	.23	T.	T.	T.	T.	T.	T.	.42	T.	T.	T.		
Meadowville	*	.45	.10	T.		.20				.25	.30	.05				T.	.20	.25	.40	.50	.20	.05			.50	.05		.02	.01	.10		
Millville	.23	.05	.03		.22	T.			.03	.06	.31	.10	.01			.06	.30	.09	.11	.09	.13	.02	.09	.61	.39	.09	.02					
Morgan	.04	.40	.04	T.	T.	.02				.46	.24					.33	.07	.20	.07	.11	.09											
Ogden No. 1		.25				.15	.65	.09	.03		.18	.43				.03	.32				.04				*	.79						
Ogden No. 2	*	.16			*	.20	.40	T.		.10	.60					*	.59															
Park City																																
Pocatello, Idaho	.10	.02	.07	.12	1.53	.02	.06	T.	.28	T.	.06	T.	T.			T.	.26	.10	.07	.15	.55	.16	.01	.46	.32		T.	T.	T.			
Randolph	.03	.05	.10	.02	T.	T.	T.	T.	T.		.31	.52				T.	.08			T.	.21	.12		T.	T.	.48	T.	.03				
Saltair Beach		.29			T.	T.	.01	.15	.03		.31	.52				T.	T.			T.	.02	.03	T.	T.	.31	.30	T.	.06	T.			
Salt Lake City	.16	.20		T.	.40	.20			.10	.25	.10					.10				.20					.10	.50						
Snowville	.15		.05		.40	.20														T.	.01					.01						
Strawberry Valley																																
Theodore					.02	.12				.05	.01	.03								.05		T.				.53						
Tooele		.19	T.		.05	.21		.07		.62	1.18									.15	.20				.02							
Vernal (near)						.10				.10	.20														.05		.20					
Woodruff																																
MIDDLE.																																
Annabella (near)	T.				.15	T.		T.	T.	T.	T.	T.														.34	.36					
Black Rock					.21	.01			.05			.40	.20													.02	.10	.12				
Castle Dale					.16						.20	.30															.40					
Deseret					.34																											
Emery					T.		T.				.21	.47	.13							T.	T.	.10		T.	*	.51	.02					
Fillmore					.25	T.		T.			.20	T.																				
Garrison					.15	T.		T.	T.	*	.37	*	1.00										.18		*	.70	.06	.09				
Government Creek					.37	T.			.03		.04	.18	.10																			
Grand Junction, Colo.																																
Green River																																
Ibapah (near)	.01		.02	.60	.22	.02	.03	T.	T.	.35	.90	.20								T.	T.	.65		T.	.37	.08	.07	T.	T.			
Levan					T.			T.		.11	*	.74								.03	T.					.18	.15					
Manti					T.					.12	T.	T.																				
Mount Nebo	T.									.20	.70															.50						
Mount Pleasant										.31	.60																					
Nephi			.04	*	*	.08				.38	.82	.38	*	.65	*	.01				*	.06				*	.35	.23					
Nephi (near)										.25	.40	.19								.03						.60	.10					
Oak City					.11	T.	.03	.09		.38	1.32	.08														.32	.14					
Payson		.03	.10			T.			T.	.10	.30	.90	.60							T.	T.	.04				.20	.30	.20	T.			
Provo		.10	.10																													
Richfield					.06																											
Scipio					.10				T.	.03	.05	.03	.05										.15									
Soldier Summit																																
Sunny-side				*	*	.25					.40	.30	.40	.30																		
Thistle											.20	.20	.30																			
Trout Creek					.30																											
Utah Lake Pumping Station																																
Wellington					.05				T.																							
SOUTHERN.																																
Aneth						.31	.10																									
Beaver																																
Cedar City						.35		.8					T.	.12																		
Coyote																																
Enterprise (near)						.82		T.		.07	T.		T.																			
Escalante						.63			.04	.03			.04																			
Frisco						.39																										
Grayson						.55	.13																									
Hite		.30																														
Kanab		.10	.20	.70	.20	T.		T.	.10	T.	T.	T.																				

651.03
U.S.
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

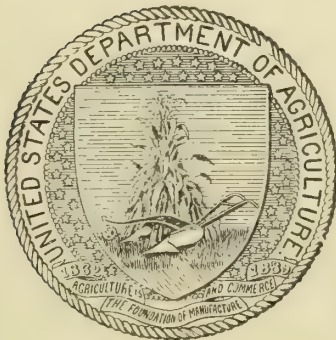
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

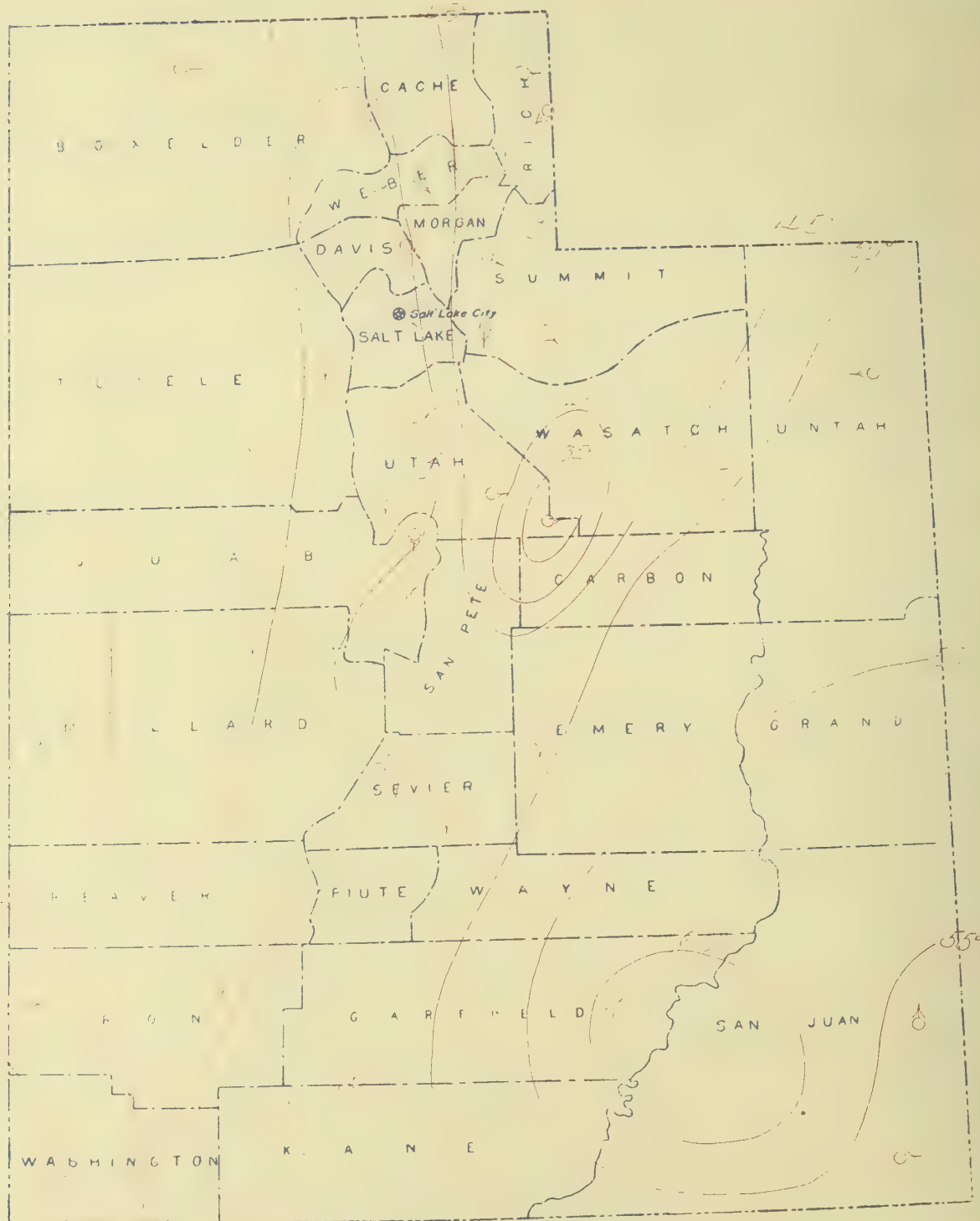
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

MAY 31, 1907

MEAN TEMPERATURES AND PREVAILING WINDS, APRIL, 1907.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

Vol. IX. SALT LAKE CITY, UTAH, APRIL, 1907. No. 4

GENERAL SUMMARY.

Generally pleasant weather prevailed thruout the month, the temperature averaging slightly above the normal. The first half of the month was unseasonably warm, the daily temperature excess ranging from 1° to 16°. The warm weather prevailing during this period caused the snow in the mountains to melt rapidly, and, as a result, high waters were general in streams and rivers. This condition was soon checked, however, by the cool weather that prevailed during the latter part of the month. Shortly before the beginning of the third decade the temperature fell below the normal, and continued so, with the exception of two or three days, during the remainder of the month. During this period, damaging frosts were quite general. The month closed with continued fair and unseasonably cool weather.

The precipitation averaged considerably below the normal, and was rather unevenly distributed. The first week was generally showery and stormy, followed by fair and pleasant weather until the 15th, when cloudy and showery weather was general until the 19th. The remainder of the month was generally fair, with only occasional showers. The rainfall for the month was heaviest in the northern, and lightest in the southern section.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 55 stations, was 50.6°, or 1.8° above the normal. The highest local monthly mean was 62.6° at St. George; the lowest was 34.9° at Soldier Summit. The highest temperature recorded was 95° at St. George on the 12th; the lowest was 2° at Soldier Summit on the 19th, giving an absolute range for the section of 93°. The highest temperatures of the month were generally recorded on the 13th, and the lowest on the 20th.

PRECIPITATION.

The average precipitation, determined from the reports of 64 stations, was 0.96 inch, or 0.20 inch below the normal. The deficiency occurred principally over the northern and southern sections, there being a slight excess recorded over the middle sec-

tion. The greatest monthly amount was 2.65 inches at Meadowville, and the least was none at Trout Creek, Pinedo and Leon. The greatest precipitation in any 24 consecutive hours was 1.26 inches at Ranch on the 2d. There was an average of 5 days with 0.01 inch or more of precipitation; 8 over the northern, 4 over the middle, and 4 over the southern portion.

WIND.

The prevailing direction of the wind for the section was west. The total number of miles recorded at Salt Lake City was 5,038; at Modena, 8,103; at Grand Junction, Colo., 4,245; and at Pocatello, Idaho, 7,261. The maximum velocity at Salt Lake City was 32 miles per hour from the west on the 4th; at Modena, 38 miles from the southwest on the 14th; at Grand Junction, Colo., 27 miles from the south on the 15th; and at Pocatello, Idaho, 40 miles from the west on the 17th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 12; partly cloudy days, 10; cloudy days, 8. Determined from the records of automatic sunshine recorders, Salt Lake City had 63 per cent; Modena 74 per cent; Grand Junction, Colo., 58 per cent; and Pocatello, Idaho, 64 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 55 per cent, the lowest observed reading being 18 per cent on the 30th; at Modena, 57 per cent, the lowest observed reading being 20 per cent on the 30th; at Grand Junction, Colo., 44 per cent, the lowest observed reading being 10 per cent on the 13th and 14th; and at Pocatello, Idaho, 55 per cent, the lowest observed reading being 13 per cent on the 29th.

OBSERVERS' REMARKS.

Alpine.—Considerable damage was done by the unusually cold weather that prevailed during the month.—T. B. Whitby.

Aneth.—Nearly normal temperature and precipitation conditions prevailed during the month, but the wind was much more active than usual. The season was generally farther advanced than usual.—Sophie Hubert.

Castle Rock.—Cold weather prevailed during the latter part of the month.—David Moore.

Corinne.—The first part of the month was cloudy and stormy; the middle part warm, and the last part cold and cloudy.—A. C. Murphy.

Deseret.—The first part of the month was quite warm and favorable, but the low temperatures that occurred during the middle and last parts of the month did considerable damage.—S. W. Western.

Emery.—The month was dry and windy, and the conditions were in general somewhat unfavorable.—H. C. Wickman.

Government Creek.—The month was characterized by cold, raw, disagreeable weather.—Walter James.

Heber.—Changeable weather prevailed during April: the first decade was cold; the second, quite summer-like; and thereafter the temperature fell to or below freezing nearly every morning.—John Crook.

Henefer.—The month was much colder than usual, being very frosty.—Wm. Brewer.

Huntsville.—The first week of April was quite stormy, tho generally warm and spring-like. The closing half of the month was cold, with frosty nights.—Lars Petersen.

Kanab.—As a whole, the month of April was very changeable, with frequent frosts.—E. M. Ford.

Levan.—Killing frosts during the latter part of the month did wide-spread damage in this part of the State.—Wm. Brown.

Marion.—Warm, showery, spring-like weather prevailed during the early part of the month, but this was succeeded by cold, stormy, disagreeable weather during the latter part of the month.—James Woolstenhulme.

Meadowville.—The month was quite blustery.—J. S. Moffat.

Marysville.—The month was generally cloudy, with considerable killing frost. The flow of the streams was checked by the cold weather.—John W. Henry.

Moab.—Considerable local damage was done by the frost on the 21st, 22d and 23d of April.—Henry Crouse.

Nephi.—A great deal of damage was caused in this locality by the unusually cold weather during the month.—Alfred Madsen.

Ogden.—Numerous light frosts occurred during the month, but the damage thereby was slight.—W. H. Chevers.

Randolph.—The first two weeks were spring-like, but the last two were wintry.—William Rex.

Scipio.—April was a very cold month, heavy and killing frost doing a great deal of damage.—Thos. Memmott.

Theodore.—The weather generally was quite dry and windy. The middle part of the month was warm, but the month closed colder, with considerable frost.—M. M. Smith.

Tooele.—The month was cold and frosty, and a great deal of local damage was done in this section by the frost.—Isaac J. Elkington.

MISCELLANEOUS PHENOMENA.

Light fog.—Black Rock, 4.

Halo, solar.—Snowville, 12.

Halos, lunar.—Randolph, 26; Tropic, 16.

Sleet.—Government Creek, 19; Henefer, 3, 5; Levan, 19; Marion, 5, 6; Marysville, 3; Meadowville, 5, 6; Mt. Nebo, 19; Nephi, 19; Parowan, 2; Sunnyside, 5, 19; Tropic, 3.

Hail.—Cedar City, 28; Corinne, 12; Government Creek, 19; Grayson, 2; Henefer, 2; Ibapah, 15, 18-20; Levan, 18, 19; Marysville, 3; Minersville, 19; Nephi, 3, 5, 19; Provo, 26; Scipio, 28.

High winds.—Aneth, 7, 13-15, 18-20, 25, 27, 29; Black Rock, 12, 27; Cedar City, 20; Deseret, 1-3, 14, 15, 19, 20, 24; Emery, 17; Farmington, 18; Garrison, 20; Government Creek, 15, 18, 22; Grayson, 15, 19, 24; Henefer, 1, 10, 15; Hite, 22,

23; Meadowville, 17; Modena, 14; Mt. Nebo, 2; Nephi (near), 3, 13, 25; Ranch, 19, 20; Salt Lake City, 4, 6, 13, 15, 17, 19, 20; St. George, 18, 19; Theodore, 6, 7, 10; Tropic, 19; Vernal, 17; Woodruff, 7, 24.

Thunderstorms.—Aneth, 2, 3; Emery, 2, 3; Farmington, 15; Government Creek, 27; Heber, 25; Henefer, 2, 5, 13-15; Hite, 1-4; Huntsville, 2; Levan, 3, 16, 26; Marion, 5; Marysville, 3, 24; Meadowville, 15, 16; Minersville, 3, 24; Moab, 2, 3; Modena, 3, 24; Morgan, 15; Nephi, 3, 28; Nephi (near), 4; Parowan, 3; Plateau, 29; Provo, 1, 13, 26; Randolph, 12; Salt Lake City, 2, 4, 5, 14, 15, 19; Theodore, 20; Tropic, 2, 3; Vernal, 15; Wellington, 2.

COMPARATIVE STATE DATA FOR APRIL.

Year.	Mean temperature.	Maximum temperature.	Minimum temperature.	Average precipitation.
1892	46.8	87	11	1.06
1893	44.4	88	1	1.15
1894	45.8	91	4	0.86
1895	49.2	94	5	0.58
1896	41.0	87	— 1	1.07
1897	47.0	93	6	0.89
1898	51.5	98	8	0.72
1899	48.2	90	11	0.58
1900	45.7	88	10	2.46
1901	46.2	89	0	0.69
1902	48.5	94	7	1.16
1903	46.0	95	4	1.01
1904	48.2	94	10	0.76
1905	48.7	88	9	1.47
1906	48.0	94	5	2.10
1907	50.6	95	2	0.96

PHENOLOGICAL RECORDS, 1906.

HENEFER, SUMMIT COUNTY, UTAH.

Latitude, 41° 1'; longitude, 111° 33'; elevation, 5,331 feet.

(William Brewer, Observer).

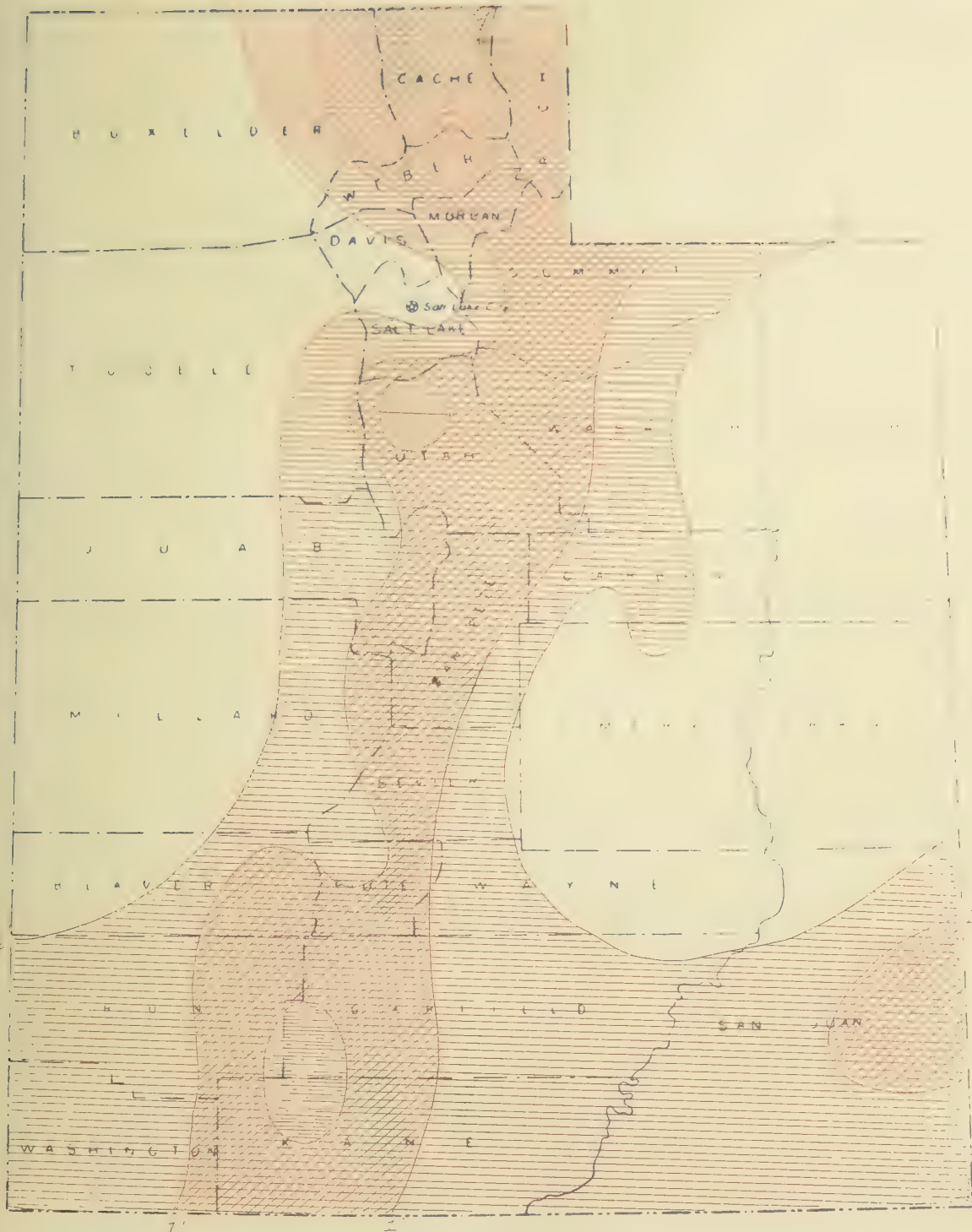
The balm of gilead, cottonwood and quaking asp, the other varieties of forest trees indigenous to this locality, began leafing about May 15th, and by May 21st the woods were green. The period of full foliage extended to the latter part of August, when the leaves began coloring, and were falling shortly thereafter. The woods were practically bare by October 24th. The first bloom appeared on apple and plum trees about the middle of May. The leaves appeared about May 20th, and a few days later the trees were in full bloom. The apple crop was badly damaged and the plum crop totally destroyed by June frosts. The sowing of spring wheat, oats, barley and alfalfa extended from April 10 to May 20th, and the planting of Irish potatoes from May 10 to June 1st. The yield in these crops was good, with the exceptions of spring wheat and potatoes, which produced only about one-half the normal yield. Wheat was damaged by rust, and potatoes by the late frosts of June. Fall wheat was good, but the acreage was small.

The first croaking of frogs was heard March 29th, and the first birds were first seen April 1st.

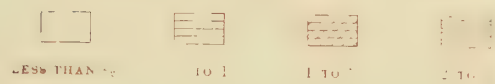
CLIMATOLOGICAL DATA, APRIL, 1907.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches						Sky				Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (inches).	Days with ice from 10 a. m. to 10 p. m.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	
NORTHERN.																				
Alpine	Utah	4,000	11							3.10	-0.04	0.79	0.0	5						T. B. Whithy.
Boxelder T.	Boxelder	4,340	37	51.2	+0.7	81	18	20	21	18	1.26	+0.16	0.60	0.0	3	10	14	7	S.	Agent So. Pacific R. R.
Cambridge	Davis	4,267	7	50.0	+2.9	78	13	28	*10	35	0.28	-2.19	0.12	T.	3	10	8	6	nw.	Charles Boylin.
Canby	Uinta	5,000	10																	Post Surgeon.
Heber	Wasatch	8,000	14	45.0	+1.5	70	*12	17	21	18	1.32	+0.01	0.32	0.0	9	9	12	9	S.	John Crook.
Henderson	Summit	8,301	4	45.2	+1.7	70	13	17	21	19	2.36	-0.81	0.63	0.0	9	10	7	11	W.	William Brewer.
Huntsville	Weber	8,100	12								2.47	-0.57	0.58	0.0	7	6	10	8	nw.	Lars Petersen.
Idaho	Boxelder	4,230	20								T.	-0.82	T.	0.0	6	9	10	11	W.	Agent So. Pacific Co.
Logan	Cache	4,507	10	47.0	-0.1	71	13	16	15	46	1.88	-0.21	0.38	0.0	11					Agricultural College.
Mesa	Boxelder		2																	Agent So. Pacific R. R.
Mesa	Rich	6,300	8	41.4	+0.6	61	16	15	20	31	2.65	+0.79	0.70	0.6	7	17	2	11	W.	J. S. Moffat.
McMurry	Cache	4,848	12								1.98	+0.32	0.40	0.0	11					Fred Yeates.
Morgan T.	Morgan	5,080	4	47.0		77	13	19	21	39	1.14	0.25	0.25	0.0	8	13	19	4		T. R. G. Welch.
Orderville No. 1	Weber	4,310	6	52.6	+2.2	78	13	30	*20	31	1.65	-0.59	0.56	T.	4	18	5	1	sw.	Enoch Farr.
Orderville No. 2	Weber	4,310	37	58.4	+6.0	79	13	38	.....	.....	1.29	-0.11	0.45	0.0	7	12	2	16	W.	W. H. Chevers.
Park City	Summit	7,800	10	41.2	+1.7	71	13	13	20	40	0.47	+1.73	0.10	1.7	7	10	10	1	W.	J. M. Martin.
Pocatello, Idaho	Bannock	4,183	7	47.0	+0.2	72	12	22	29	33	1.14	-0.41	0.43	0.5	10	9	10	8	se.	Weather Bureau.
Randolph	Rich		2								1.09	0.24	0.24	0.0	8	9	10	12	ne.	Wm. Rex.
Salt Lake	Salt Lake		3	51.8		70	13	31	20	26	0.74	0.32	0.32	0.0	8					Ernest B. Sones.
Salt Lake City	Salt Lake	4,366	33	51.4	+1.6	78	20	29	21	31	1.46	-0.67	0.49	0.5	9	11	8	8	nw.	Section Center.
Snowville	Boxelder	4,360	17	44.4	1.7	78	12	16	*21	41	0.52	-0.74	0.15	0.0	6	9	13	8	S.	Joseph Robbins.
Strawberry Val.	Wasatch		1																	A. B. Larson.
Theodore	Wasatch	5,507	1	48.2		77	12	19	20	13	0.15	0.06	0.06	0.3	4	5	10	6	W.	M. M. Smith.
Tooele	Tooele	4,960	11	50.5	+1.8	71	*9	23	25	32	0.82	-0.95	0.34	0.0	6	14	5	11	n.	I. J. Elkington.
Utah (near)	Uinta		12	52.1	+4.0	82	11	27	21	41	0.41	-0.33	0.20	1.0	4	19	4	7	e.	Joab Collier.
Woodruff	Rich	6,500	10	41.0	+1.6	71	13	14	*25	43	1.00	+0.19	0.50	2.0	3	17	4	9	W.	C. G. Youngberg.
Averages				45.6	+1.7						1.21	-0.39		0.7	8	12	9	9	W.	
MIDDLE.																				
Black Rock	Millard	4,872	7	50.8	+2.0	81	*10	21	*22	50	0.52	-0.60	0.25	0.0	5	13	10	7	S.	Willard Burbank.
Castle Dale—T1	Emery	5,300	8	49.4	+4.2	81	12	13	21	41	0.40	0	0.15	0.0	4	10	10	0		James Jeffs.
Dorset	Millard	4,514	13	40.8	+1.9	83	10	18	21	50	0.10	-0.87	0.10	0.0	1	13	5	12	S.	S. W. Western.
Emery	Emery	6,260	7	49.0	+6.8	78	26	18	20	50	0.40	-0.32	0.40	0.0	1	4	7	19	n.	H. C. Wickman.
Elmore	Millard	5,160	17	51.1	+4.6	80	12	22	*20	46	0.55	-0.26	0.35	0.0	5					J. J. Stanley.
Garrison	Millard		4	52.7		81	12	19	22	50	T.	T.	T.	0.0	0	14	5	11	S.	E. M. Smith.
Grosvont Creek	Tooele	5,277	7	48.6	+1.4	76	13	19	20	37	0.27	-1.13	0.25	0.0	2	13	11	6	nw.	Walter James.
Grand Junction, Col.	Mesa	4,668	10	53.6	+0.4	82	10	30	21	39	0.34	-0.32	0.23	T.	4	10	11	9	nw.	Weather Bureau.
Green River	Emery	4,680	10																	F. P. Fullmer.
Hatch (near)—T10	Tooele	7,500	.....	42.5		71	12	13	20	40	10.44	0.21	0.21	1.5	3	10	9	1		J. S. Lawton.
Hatch	Juab	5,010	17	48.6	+2.2	78	13	21	20	38	1.19	-0.42	0.37	T.	5	15	7	8	sw.	William Brown.
Hatch	Sanpete	5,575	13	48.0	+0.4	78	13	18	20	43	0.99	+0.11	0.26	0.0	0	0	28	2		W. M. Harmon.
Hatch	Utah	4,650	6	51.8	+2.1	78	13	28	*20	39	0.54	0.12	0.20	0.0	6	14	11	5	n.	D. C. Walkey.
Hatch	Sanpete	5,859	15	48.2	+1.0	79	13	18	19	29	1.51	+0.63	0.42	0.0	5	14	16	0		Web Greene.
Hatch	Juab		2								1.28	0.37	T.	7	16	8	6		A. Madsen.	
Hatch	Millard		2	52.0		83	12	21	21	48	0.69	0.22	0.0	4	16	5	9	W.	J. Finlinson.	
Hatch	Utah	4,637	2								1.14	0.34	0.34	0.0	7	10	11	9	sw.	D. L. Coombs.
Hatch	Utah	1,532	15	51.6	+2.3	80	*13	24	21	40	1.30	+0.12	0.30	1.0	7	9	12	9	sw.	W. K. Henry.
Hatch	Sevier	5,350	17	52.8	+6.3	85	11	21	21	51	0.02	-0.57	0.02	0.0	1	22	4	4	sw.	S. Christensen.
Hatch	Millard	5,260	12	48.0	+1.2	81	14	14	21	49	1.19	+0.03	0.33	0.0	7	9	6	15	sw.	Thomas Memmott.
Hatch	Utah	7,474	15	53.9	+5.9	88	14	2	19	38	1.70	+1.08	0.33	17.0	3	1	12	17	W.	Agent Rio Grande R. R.
Hatch	Utah	5,075	15	48.8	+1.3	80	12	15	20	45	1.70	+0.53	0.70	3.0	6	8	13	9	W.	Ag. Rio Grande W. R. R.
Hatch	Juab		2	50.6		82	*9	20	21	49	0.00	0.00	0.00	0	0	12	15	3		Mrs. W. A. Edwards.
Hatch	Utah		2																	W. A. Knight.
Hatch	Carbon	5,540	8	52.2		90	10	18	22	60	0.10	0.10	0.10	0.0	1	1	25	3		Melville Branch.
Averages				49.2	+1.5						0.76	+0.04		1.1	4	11	10	9	sw.	
SOUTHERN.																				
Aneth	San Juan	4,800	7	57.0	+2.7	84	*11	26	22	42	0.52	+0.08	0.16	0.0	5	21	6	3	W.	Miss S. Hubert.
Beaver	Beaver		2	54.0		78	16	23	1	37	1.13	0.45	0.45	0.0	5					A. B. Anderson.
Cedar City	Iron		3	50.6		70	*10	22	20	30	0.88	0.60	0.0	0	3	7	18	5	ne.	J. M. Foster.
Coyote	Garfield		6																	H. J. McCullough.
Escalante	Garfield	5,700	7	50.8		82	11	22	21	43	0.64	0.44	0.44	0.0	3	27	0	3		Geo. H. Barney.
Exeter, Farm	Washington		3	58.6		88	*11	31	21	44	.....					15	9	0		Joseph T. Atkin.
Frisco	Beaver	7,318	13	45.8	-0.9	80	*12	17	20	49	0.00	-0.72	0.00	0.0	0					Prof. Albert Warren.
Giles	Wayne	4,000	12																	J. C. White.
Grayson	San Juan		2	52.7		85	10	17	20	46	1.73	0.70	10.0	4	13	3	14			Joseph D. Lyman.
Hite	Garfield	3,000	6	61.8	-2.7	91	11	30	*4	42	0.82	+0.51	0.35	0.0	4	14	10	0	sw.	E. W. Gibbons.
Kanab—T11	Kane	4,925	7	46.9	-2.7	81	15	17	24	51	1.40	0.70	0.70	0.0	2	11	1	7		E. M. Ford.
La Sal	San Juan	7,000	7																	Mrs. G. W. Carpenter.
Loa	Wayne	7,000	15	41.1	+0.5	73	12	10	*20	45	0.00	-0.50	0.00	0.0	0					Michael Hansen.
Marysville (near)	Piute	6,180	8	48.3	+2.6	81	12	16	30	51	0.97	+0.33	0.45	0.1	12	7	14	9	n.	John W. Henry.
Millard																				W. H. Hall.
Minersville	Beaver	5,070	10								0.65	-0.51	0.36		6					Henry Crouse.
Moab	Grand	4,300	18	57.4	+2.0	80	10	27	21	49	0.36	0.08	0.28	0.0	4	2	21	7		Weather Bureau.
Modena	Iron	5,479	7	49.2	+3.1	79	11	22	30	47	0.51	-0.33	0.34	T.	4	11	11			

TOTAL PRECIPITATION APRIL 1907



SCALE OF SHADES—IN INCHES



DAILY PRECIPITATION, APRIL, 1907.

Stations.	Day of month.																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine	.40			.62	.20													.09	.79				T.										
Castle Rock		.65	.10	.10	.20	.30	.10											.02	.18														
Corinne		.60		.38		.28																											
Farmington					.10	.12										.06	T.								T.								
Ft. Duchesne																																	
Grantville (near)																																	
Heber		.06	.20	.32	.10		.20									.04		*	.30							.05				.05			
Hemphill		.12	.20		.63	.51	.52						T.	T.	T.		T.	T.	.20				.01					.04		.10			
Huntsville		.50	.10	.58	.47	.29	.03											.39	T.														
Kelton																										T.							
Logan		.10	.30	*	.38	.25				.07					*	.23		*	*	.25													
Lucin																																	
Marion	T.	.10	.09	.02	.15	.25	.21								T.	.09	T.	.05	.18										T.	.11		T.	
Meadowville			.40		T.	.60	.70				.10				T.		.37	T.	*	.48					T.				.10				
Millville	.08	.22			.40	.40	.18									.06	.04	T.	.06	.05			.11					.05					
Morgan		.17	.22	.13	.11	.23										.02			T.	.25													
Ogden No. 1			.39	.35					.56									.39	.35														
Ogden No. 2		*	.45		.41	.26												*	.17														
Park City		.10			.07	.07	.10									.10			.01	.02													
Pocatello, Idaho		.43		.22	.30	.02	T.				.02		.01			.09		.01	.02					.02				.01	.02				
Radiolph		.03	.13	.12	.21	.23						.03		.24				.08	.03	.03													
Saltair Beach		.03	.01	.14	.32	.62	.01									.08	T.	T.	.13														
Salt Lake City	.04	T.	.21	.04	.45	.20									T.	T.	.24	.01	.08	.19				T.			T.						
Snowville		.05		.05		.15												.07	.10	.10													
Strawberry Valley																																	
Theodore		.05	.06		.01														.03								T.		T.	T.			
Tooele		T.	.06		.51	.03									.03		.08	T.	.28														
Vernal (near)		.01	.15		T.								T.	T.					.20										.05				
Woodruff			.30			.50													.20														
MIDDLE.																																	
Annabella (near)	.21	.33																	.62												.02		
Black Rock	.02	.10	.05													.25			.10								T.				T.		
Castle Dale	.05	.15	.10														T.		.10														
Deseret		.10	T.																														
Emery	T.	.40	T.																														
Fillmore	T.	.10		.02	T.												.35		.07													.01	
Garrison	T.	T.	T.															*	.25								T.						
Government Creek														T.					.23	.05													
Grand Junction, Colo.		.01	T.		.02																												
Green River																																	
Hatch (near)				T.	T.										T.	.04	.21		T.	.19	T.												
Levan					.22											.21		T.	.37												.18		
Manti		T.	T.	.07	.06	T.										.25	T.	.26	.15								T.		T.		.20		
Mount Nebo	T.	.05			.20											.10		.05	.12														
Mount Pleasant					.42													.40	.08												.40		
Nephi		.04	.01		.37											.15		.37													.13	.21	
Nephi (near)				*	.35										*	.12		*	.20											.12	.14		
Oak City		.22	.10															.15		.23											.22		
Payson		T.	.10	T.	.34	T.									T.		.16		.12	.32										.05	.05		
Provo		.20	.10	.10	.20	T.										.30	T.		.30											.10	T.		
Richfield																		T.													.02		
Scipio		.12	.13	.20												T.	.33		.15												.25	.01	
Soldier Summit					.20	.30												*	1.20														
Sunnyside	.25				.05													T.	.10	.10										.20	T.	.08	
Thistle		.10	T.	.10	T.	.20									.30			T.		.30										.70			
Trout Creek																																	
Utah Lake Pumping Station																																	
Wellington	.10																																
SOUTHERN.																																	
Alto	.10	.10	.10	.10																												.06	
Beaver	.15	.15	.23													.30																	
Cedar City	*	.60	.21																												.07		
Coyote																																	
Enterprise (near)	*	*	.06																														
Escalante	.11	.44	.09																														
Frisco																																	
Grayson		.70	.39	.07															*	.60													
Hite	.17	.18	.35	.12															T.														
Kanab	T.	.70	.60	.10																												T.	
La Sal																																	
Low																																	

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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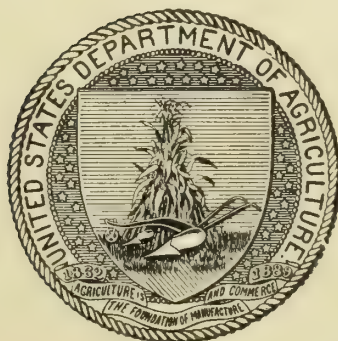
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT,

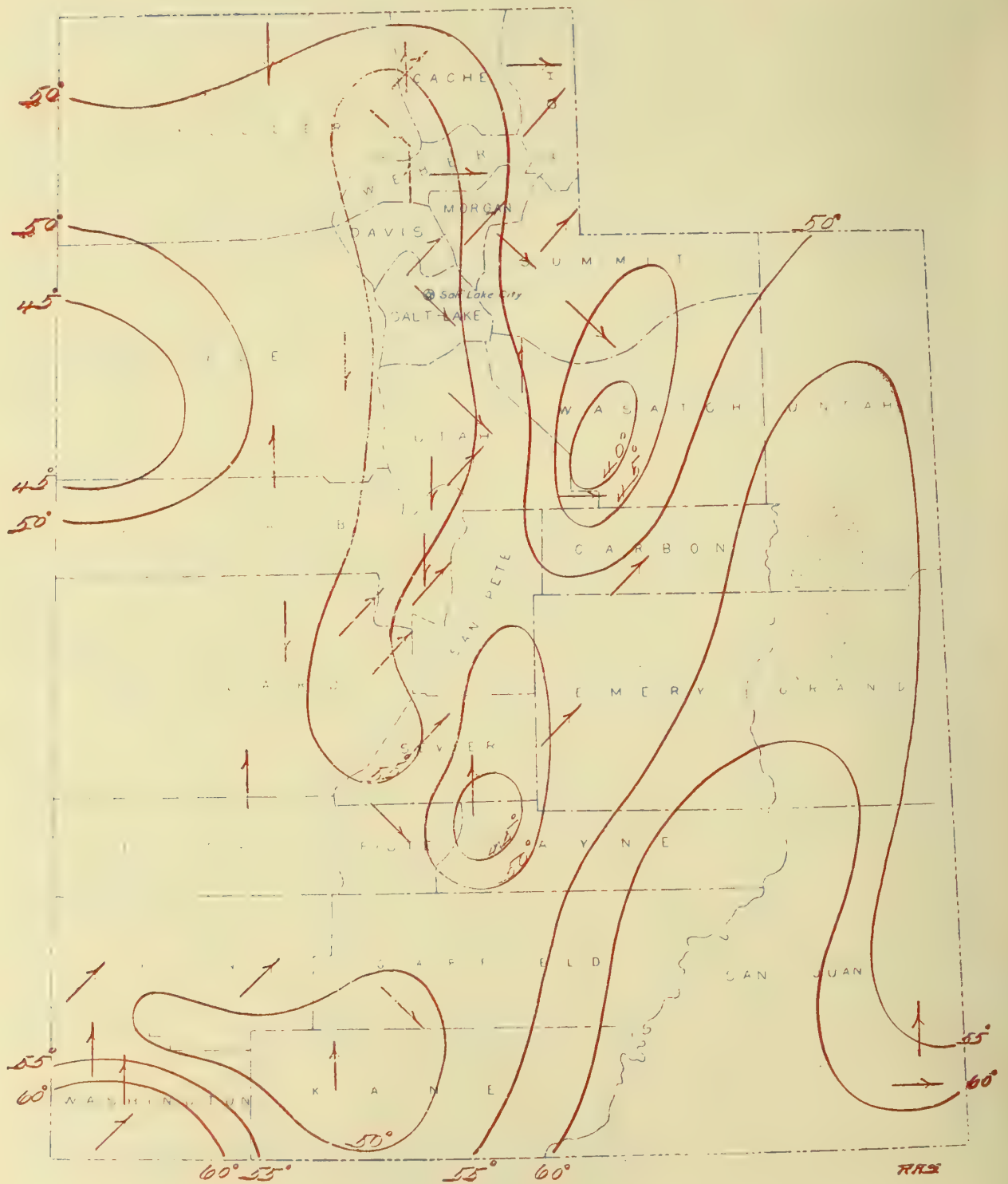
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

JUNE 25, 1907.

MEAN TEMPERATURES AND PREVAILING WINDS, MAY, 1907.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX.

SALT LAKE CITY, UTAH, MAY, 1907.

No. 5

GENERAL SUMMARY.

During the month of May, the temperature thruout the State was generally below the seasonal average. Tho the daily deficiencies were not great, they were generally quite constant, and obtained for all sections. The first half of the month was cool, with cloudy conditions prevailing. The warmest period was from the 16th to the 22d. The maximum temperatures for the month occurred generally during this period, and the daily averages were considerably above normal. The remainder of the month was unseasonably cool, with cloudy and showery conditions predominating. The temperature distribution for the State was quite even. The highest monthly averages prevailed in the north-central, southeastern and extreme southwestern portions of the State, and the lowest in the northern and northwestern portions. Light frosts were quite general during the first and third decades, and damaging frosts were reported in some localities.

The monthly precipitation averaged much above the normal, and was quite evenly distributed over the State. Showers occurred with uniform frequency thruout the month, and there were few localities where the monthly rainfall was below the normal amount. Thunderstorms were frequent, especially during the last decade, and hail and high winds were reported in the northern and middle sections during the same period. The heaviest precipitation occurred in the central or mountainous regions, the rainfall being comparatively lighter in the outlying districts. The least precipitation occurred in the extreme southeastern, southwestern and northwestern portions of the State. Considerable snow fell in the mountainous districts, and, owing to the cool weather prevailing during the month, quite a volume remained unmelted.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 57 stations, was 52.7° , or 3.1° below the normal. The highest local monthly mean was 68.4° at Ogden No. 2; the lowest was 38.2° at Soldier Summit. The highest temperature recorded was 97° at St. George on the 19th; the lowest was 16° at Plateau on the 1st, giving a range for the section of 81° . The highest temperatures of the month were generally recorded on the 19th, and the lowest on the 1st.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 2.04 inches, or 0.88 inch above the normal. The excess occurred principally over the central districts, there being slight deficiencies in some of the border counties. The greatest monthly amount was 4.30 inches at Alpine, and the least was 0.26 inch at Marysville (near). The greatest precipitation in any 24 consecutive hours was 2.20 inches at Woodruff on the 24th. There was an average of 7 days with 0.01 inch or more of precipitation; 7 over the northern, 6 over the middle, and 7 over the southern portion.

WIND.

The prevailing direction of the wind for the section was northwest. The total number of miles recorded at Salt Lake City was 5,785; at Modena, 9,531; at Grand Junction, Colo., 4,499; and at Pocatello, Idaho, 6,097. The maximum velocity at Salt Lake City was 48 miles per hour from the northwest on the 11th; at Modena, 58 miles from the southwest on the 11th; at Grand Junction, Colo., 29 miles from the southwest on the 12th; and at Pocatello, Idaho, 32 miles from the southwest on the 22d.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 10; partly cloudy days, 12; cloudy days, 9. Determined from the records of automatic sunshine recorders, Salt Lake City had 59 per cent; Modena 79 per cent; Grand Junction, Colo., 52 per cent; and Pocatello, Idaho, 67 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 46 per cent, the lowest observed reading being 13 per cent on the 19th; at Modena, 51 per cent, the lowest observed reading being 11 per cent on the 21st; at Grand Junction, Colo., 47 per cent, the lowest observed reading being 7 per cent on the 22d; and at Pocatello, Idaho, 51 per cent, the lowest observed reading being 12 per cent on the 22d.

OBSERVERS' REMARKS.

Alpine—The weather during the month was unseasonably cool—T. B. Whitby.

Aneth—The month was unusually cool and windy. No precipitation occurred until the 27th—Sophie Hubert.

Black Rock—Extremely cool weather prevailed generally thruout the month—Willard Burbank.

Castle Rock—The month was unusually cold—David Moore.

Cedar City—May was an unusually cold and stormy month—J. M. Foster.

Corinne—The month was generally cloudy—A. C. Murphy.

Deseret—The temperature for the month was below the normal. Some damaging frosts occurred—S. W. Western.

Government Creek—May was a very backward month, there being much cold weather—Walter James.

Heber—The month was very cold and cloudy, with frequent frosts. The rainfall was above the normal—John Crook.

Henefer—The month on the whole was colder than usual, and

some damage was done by frost. Irrigation prospects were good—Wm. Brewer.

Huntsville—The fore part of the month was cold; the latter part was warm and pleasant—Lars Petersen.

Marysvale—The month was very cloudy and unseasonably cool. Damaging frosts occurred, and the precipitation was much in excess of the normal—John W. Henry.

Meadowville—The month was generally very favorable—J. S. Moffat.

Mt. Nebo—Cloudy weather prevailed during the month, with temperatures much below the normal—D. C. Walkey.

Ranch—The weather was unusually cold and windy during the month—J. W. Seaman.

Saltair Beach—The month was cool and windy, with frequent thundershowers—Ernest B. Sones.

Sunnyside—The weather during the month was stormy—Henry Cullum.

Theodore—The month was very cloudy, but the precipitation was below the normal—M. M. Smith.

Vernal (near)—Streams were unusually high in this locality during the latter part of the month—Joab Collier.

MISCELLANEOUS PHENOMENA.

Fog—Ibapah (near), 5, 13.

Halo, lunar—Marysvale, 23.

Aurora—Morgan, 31; Theodore, 20.

Corona, lunar—Government Creek, 19.

Halo, solar—Henefer, 22; Randolph, 30.

Sleet—Castle Rock, 2, 5, 12, 25; Marion, 12, 24; Meadowville, 13, 25; Parowan, 6, 12, 28; Payson, 12; Saltair Beach, 4; Sunnyside, 5, 6, 8; Tropic, 23.

Killing frost—Aneth, 12, 13; Annabella, 1; Black Rock, 15; Cedar City, 12; Deseret, 1; Enterprise, 12, 13, 22; Heber, 1; Henefer, 1, 14; Levan, 1; Marion, 3, 20; Marysvale, 1; Meadowville, 1, 3, 6, 14; Moab, 3, 13; Modena, 1; Morgan, 3, 5-7, 15; Provo, 1, 3; Theodore, 7, 8.

Hail—Black Rock, 12, 23, 25; Cedar City, 28; Ft. Duchesne, 25; Government Creek, 7, 12, 28; Henefer, 2, 4; Ibapah (near), 4, 5, 7-9, 11, 12, 25; Levan, 3, 24, 25; Marion, 2, 5; Marysvale, 12, 23; Meadowville, 23; Minersville, 7, 12, 23; Modena, 5, 25; Nephi, 2; Nephi (near), 3; Parowan, 6, 12, 23; Plateau, 29; Randolph, 25, 28; Saltair Beach, 2, 4, 23; Scipio, 6, 13; St. George, 12; Sunnyside, 5, 6; Tropic, 4, 7, 12, 23; Vernal (near), 12.

High wind—Aneth, 2, 4-6, 11, 12, 17, 20-23; Black Rock, 11, 19, 21, 22; Deseret, 3, 4, 6, 11, 19, 21, 22, 24, 29; Enterprise, 1, 3, 4, 11, 18-27; Garrison, 10, 11, 19, 21-24; Government Creek, 10, 11, 22, 23; Grayson, 11-13, 21-23; Heber, 11; Henefer, 10, 11, 14, 16, 19, 21-23, 26, 27; Hite, 11, 12, 20-23; Marion, 11, 14; Marysvale, 20-22; Meadowville, 7, 11, 19, 23; Mt. Nebo, 10, 22, 23; Nephi, 11; Nephi (near), 1, 2, 11, 12, 21-23; Parowan, 11, 19, 22; Provo, 11, 13; Ranch, 19, 21-23; Richfield, 11, 20-22; Salt Lake City, 2, 11-13, 23; Scipio, 19-22; St. George, 2-5, 8-12, 22, 23; Tropic, 2, 11-13, 21, 25; Vernal (near), 12; Woodruff, 11, 20, 22, 23.

Thunderstorms—Aneth, 5, 9, 26-29; Cedar City, 5, 6, 23, 26, 28; Deseret, 4, 5; Emery, 4, 25, 27; Farmington, 3-5, 23, 25; Ft. Duchesne, 25; Government Creek, 4, 7, 8; Heber, 27; Hen-

efer, 4, 7, 8, 23, 27-29; Hite, 5, 6, 8, 12, 25; Ibapah (near), 11, 23, 25; Levan, 4-6, 8; Marion, 8, 27, 28; Marysvale, 11, 29; Meadowville, 27; Minersville, 7, 12, 23, 27, 28; Moab, 5-12, 29, 30; Modena, 2, 3, 5, 25, 27; Morgan, 27, 30; Nephi, 25; Nephi (near), 25; Parowan, 5, 6, 23, 27, 28; Pinto, 11, 20, 2 Plateau, 6-8; Provo, 4, 6, 8, 11, 12, 27; Ranch, 12, 25; Randolph, 28; Salt Lake City, 2, 4, 6, 23, 27, 28; Saltair Beach, 2, 4, 27; Scipio, 28; Sunnyside, 6; Theodore, 4, 6-8, 12, 28; Tropic, 8, 28; Vernal (near), 8, 12.

COMPARATIVE STATE DATA FOR MAY.

Year.	Temperature.			Average Precipitation
	Mean.	Highest.	Lowest.	
1892	54.8	98	20	1.55
1893	54.8	96	12	0.77
1894	58.2	98	10	0.44
1895	57.0	99	19	1.16
1896	51.0	104	12	1.52
1897	60.2	104	12	0.42
1898	53.2	94	20	3.02
1899	52.8	96	15	0.79
1900	59.5	101	21	0.36
1901	59.3	98	15	1.29
1902	56.2	99	13	0.64
1903	53.3	100	15	1.60
1904	56.2	100	15	1.71
1905	52.3	96	18	1.77
1906	55.1	96	13	1.98
1907	52.7	97	16	2.04

PHENOLOGICAL RECORDS, 1906.

ANETH, SAN JUAN COUNTY, UTAH.

Latitude, 37° 14'; longitude, 109° 9'; elevation, 4,800 feet.
(Sophie Hubert, Observer).

The first leaves appeared on the cottonwood about the middle of April, and by May 1st the trees were green. The period of full foliage extended to October 1st. The leaves began coloring and falling shortly thereafter, and by November 15th the trees were bare. There is practically no fruit grown in this section, but the planting of trees has received considerable attention of late. Corn planting began about May 1st, and ended the middle of June. The quantity of the yield was good, and the quality medium. The soil was prepared for wheat during the latter part of March and April, and potatoes were planted in March. Corn is the most important crop grown in this section of the State, and, as a rule, produced well.

MILLVILLE, CACHE COUNTY, UTAH.

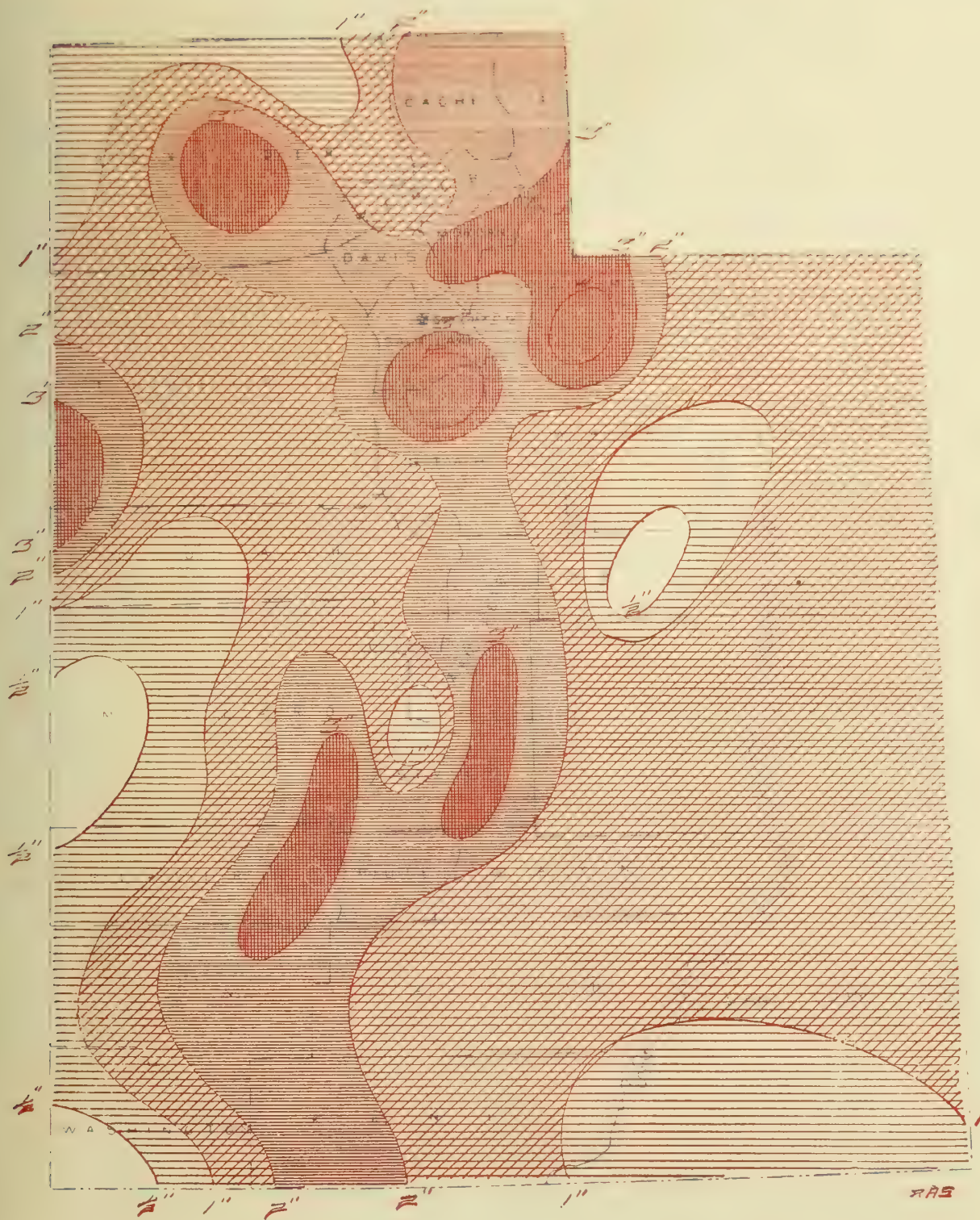
Latitude, 41° 40'; longitude, 111° 50'; elevation, 4,848 feet.
(Fred Yates, Observer).

The boxelder, poplar and black locust are the most important varieties of forest trees common to this section. The boxelder and poplar began leafing about April 1st, and the leaves began falling by the latter part of September. The leaves of the black locust appeared about a month later than those of the two other varieties mentioned, and remained on the trees for a correspondingly longer period. The principal fruit trees are the apple, peach, pear, plum and cherry. The yield of fruit was generally good, tho it was damaged to some extent by worms, the injury to the apple crop from this cause being considerable. This region is not adapted for the raising of corn, and the yield was only fair. In the case of the other cereals, as wheat, oats, barley and rye, the yield was also light, and the acreage generally small. Timothy, clover and alfalfa thrived better, and the yield in both quality and quantity was generally good.

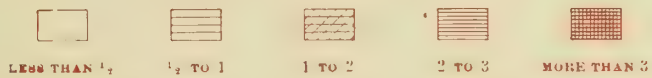
CLIMATOLOGICAL DATA, MAY, 1907.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with 0.1 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine	Utah	4,900	11								4.30	+2.03	1.50	0.0	7					T. B. Whitby.
Alpine	Boxelder	4,240	37	54.6	-6.1	90	20	29	5	49	1.82	+0.51	0.40	0.0	4	9	11	8	8 & SW	Agent So. Pacific R. R.
Armonington	Davis	4,207	7	55.0	-1.3	84	20	30	1	44	3.02	+0.19	0.68	0.0	10	17	8	6	SW.	Charles Boylin.
Chesno	Uinta	5,000	10	52.8	-3.2	85	19	25	3	46	1.02	+0.23	0.23	0.0	10	17	6	8		Post Surgeon.
Chesno	Wasatch	5,000	14	50.4	-1.8	80	*18	20	1	45	2.00	+0.41	1.35	0.0	10	5	15	11	8	John Crook.
Chesno	Summit	5,301	8	49.2	-2.7	82	19	20	1	50	2.50	+0.84	1.50	5	8	11	11	9	nw.	William Brewer.
Chesno	Weber	5,100	12								1.75	-0.37	0.51	0.0	5	11	14	6	w.	Lars Petersen.
Chesno	Boxelder	4,230	29			83	30	47	*9		3.00	+2.35	2.00	0.0	4	3	12	16		Agent So. Pacific Co.
Chesno	Cache	4,507	10	51.8	-3.2	76	17	32	2	31	2.8.	+0.64		0.0	8					Agricultural College.
Chesno	Boxelder		2																	Agent So. Pacific R. R.
Chesno	Rich	6,200	8	46.9	-2.5	74	19	25	*3	37	2.82	+1.14	1.40	0.4	5	16	6	9	w.	J. S. Moffat.
Chesno	Cache	4,848	12								2.78	+0.79	1.05	0.0	8					Fred Yeates.
Chesno	Morgan	5,680	4	52.0		85	21	26	*13	46	3.08		1.90	0.0	6	14	9	4	sw.	T. R. G. Welch.
Chesno	Weber	4,310	6	57.2	+0.1	86	19	36	12	32	1.89	-1.15	0.80	0.0	5	18	9	4	nw.	Enoch Farr.
Chesno	Weber	4,310	37	68.4	+7.1	86	*21	50	*3	20	0.83	-0.81	0.57	0.0	3	15	3	13	s.	W. H. Chevers.
Chesno	Summit	7,800	10	45.4	-3.9	77	20	22	1	39	2.20	+0.44	0.90	20.5	8	5	21	5		J. M. Martin.
Chesno	Bannock	4,483	7	53.2	-2.3	79	19	30	5	36	1.01	-0.16	0.66	0.0	7	11	17	3	se.	Weather Bureau.
Chesno	Rich		2								2.37		1.17		9	15	8	8	sw.	Wm. Rex.
Chesno	Salt Lake		3	57.0		82	19	36	1	30	2.29		0.84	0.0	7					Ernest B. Sones.
Chesno	Salt Lake	4,366	33	55.6	-2.0	83	19	34	2	34	2.87	+0.82	1.58	0.0	13	12	11	8	nw.	Section Center.
Chesno	Boxelder	4,360	17	50.2	-4.4	82	19	21	6	42	0.92	-0.37	0.50	0.0	4	14	15	2	n.	Joseph Robbins.
Chesno	Wasatch		1																	A. B. Larson.
Chesno	Wasatch	5,507	1	51.2		82	*19	27	*1	43	0.85		0.34	T.	5	2	16	13		M. M. Smith.
Chesno	Tooele	4,900	11	54.3	-1.7	81	19	31	12	35	2.23	-0.12	1.13	0.0	6	20	3	8	n.	I. J. Elkington.
Chesno	Utah		12	50.1	-0.8	89	10	31	3	51	1.37	+0.42	0.32	0.0	8	11	7	13		Joab Collier.
Chesno	Rich	6,500	10	45.4	-2.3	78	19	17	1	47	3.20	+2.11	2.20	13.5	5	18	0	11		C. G. Youngberg.
Averages.				52.9	-2.0						2.34	+0.66		1.7	7	12	11	8		
MIDDLE.																				
Black Rock	Millard	4,872	7	54.2	-1.5	83	20	23	1	45	1.31	+0.13	0.52	0.6	6	12	14	5	s.	Willard Burbank.
Castle Dale	Emery	5,500	8	52.8	-0.6	82	19	25	1	48	1.03	+0.70	0.25	0.0	6	11	18	2		James Jeffs.
Crescent	Millard	4,541	13	53.4	-3.3	82	21	22	1	43	2.20	+1.06	0.90	0.0	5	13	6	12	n.	S. W. Western.
Crescent	Emery	6,260	7	51.9	+2.2	80	19	21	5	39	1.52	+1.10	1.10	0.0	2	1	5	25	sw.	H. C. Wickman.
Crescent	Millard	5,100	17	55.5	-2.0	85	*19	32	*12	41	3.20	+1.74	1.33	0.0	8					J. J. Starley.
Crescent	Millard		4	54.4		84	18	24	14	43	0.42		0.27	0.0	3	14	6	10	s.	E. M. Smith.
Crescent	Tooele	5,277	7	51.6	-2.3	81	19	27	1	44	1.60	-0.22	0.65	1.0	8	11	13	7	s.	Walter James.
Crescent	Mesa	4,668	16	56.4	-5.2	85	19	29	14	36	1.21	+0.58	0.43	0.0	8	9	7	15	se.	Weather Bureau.
Crescent	Emery	4,080	10																	F. P. Fullmer.
Crescent	Tooele	7,500		41.8		74	22	22	*1	40	3.11		1.66	16.7	7	6	7	7		J. S. Lawton.
Crescent	Juab	5,010	17	51.6	-3.3	80	19	27	1	39	2.33	+0.72	0.55	0.0	7	7	13	11	sw.	William Brown.
Crescent	Sanpete	5,575	13	50.4	-7.0	82	19	26	*1	39	3.75	+2.75	1.08		11	0	30	1		W. M. Harmon.
Crescent	Utah	4,650	6	58.6	+2.6	84	19	36	12	36	1.21	-0.13	0.62	0.0	9	10	14	7	n.	D. C. Walkey.
Crescent	Sanpete	5,859	15	51.2	-3.3	84	20	28	*2	41	2.88	+1.69	0.97	0.0	7	14	15	2		Web Greene.
Crescent	Juab		2								2.13		0.74		8	15	9	7		A. Madsen.
Crescent	Millard		2	54.8		83	19	28	1	39	1.69		0.92	0.0	6	15	6	10	sw.	J. Finlinson.
Crescent	Utah	4,637	2								2.19		0.78	0.0	7	5	14	12	sw.	D. L. Coombs.
Crescent	Utah	4,532	15	55.0	-2.7	85	19	28	1	37	2.50	+1.17	0.90	0.0	5	11	14	6	nw.	W. K. Henry.
Crescent	Sevier	5,350	17	55.6	-1.5	90	20	27	1	48	0.79	+0.35	0.50	0.0	3	8	12	5	sw.	S. Christensen.
Crescent	Millard	5,260	12	51.6	-2.3	83	19	20	1	46	1.80	+0.36	0.51	0.0	8	6	11	14	sw.	Thomas Memmott.
Crescent	Utah	7,474	15	58.2	-9.4	70	*18	18	*2	43	1.09	+0.25	0.60	10.5	5	1	27	3	w.	Agent Rio Grande R. R.
Crescent	Utah	5,075	15	50.1	-4.8	80	20	23	2	45	2.60	+1.58	1.00	2.0	4	8	15	8		Ag. Rio Grande W. R. R.
Crescent	Juab		2	53.8		85	19	29	1	47	0.79		0.78	0.0	2	11	19	1		Mrs. W. A. Edwards.
Crescent	Utah		2																	W. A. Knight.
Crescent	Carbon	5,540	8	54.2	-2.0	90	30	21	1	60	0.36	-0.23	0.10	0.0	5	0	25	6	sw.	Melville Branch.
Averages.				52.0	-4.0						1.87	+1.17		1.5	6	9	14	8	sw.	
SOUTHERN.																				
Alpine	San Juan	4,800	7	60.2	-2.3	87	*19	33	*3	41	0.85	+0.54	0.44	0.0	2	16	13	2	w.	Miss S. Hubert.
Alpine	Beaver		2	52.6		78	19	32	2	32	3.01		1.83	0.0	9					A. B. Anderson.
Alpine	Iron		3	52.0		76	19	30	14	33	2.63		0.72	11.5	7	6	14	11		J. M. Foster.
Alpine	Garfield		6	55.7	+7.6	81	19	40	*11	40	1.05	+0.35	0.75	0.0	3					H. J. McCullough.
Alpine	Garfield	5,700	7	51.2	-2.0	81	19	28	14	42	1.40	+0.94	0.79	0.0	9	15	0	16		Geo. H. Barney.
Alpine	Washington		3	62.6	-6.8	91	*19	36	13	47						12	4	15		Joseph T. Atkin.
Alpine	Beaver	7,318	13																	Prof. Albert Warren.
Alpine	San Juan		2	51.6		83	20	24	3	40	1.42		1.03	0.0	2	13	8	10	s.	Joseph D. Lyman.
Alpine	Garfield	3,000	8	63.8	-5.2	93	20	40	*8	42	1.41	+0.77	0.46	0.0	4	14	15	2	w.	E. W. Gibbons.
Alpine	Kane	4,925	7	49.0		82	*19	21	1	52	2.30		1.00	0.0	6	11	5	15		E. M. Ford.
Alpine	San Juan	7,000	7																	Mrs. G. W. Carpenter.
Alpine	Wayne	7,000	15	43.4	-6.2	75	20	19	1	47	0.26	-0.08	0.12	0.0	3					Michael Hansen.
Alpine	Piute	6,180	8	50.0	-2.7	81	19	21	1	46	2.27		0.62	0.5	13	9	7	15	nw.	John W. Henry.
Alpine																				W. H. Hall.
Alpine	Beaver	5,070	10								3.61	+2.73	0.91	4.0	12					
Alpine	Grand	4,000	18	60.2	-4.4	90	19	30	3	45	1.40	+0.64	0.54	0.0	7					Henry Crouse.
Alpine	Iron	5,479	7	51.2	-3.2	78	19	26	1	38	1.71	+0.96	1.36	0.3	7	8	9	14	sw.	Weather Bureau.
Alpine	Iron	5,970	16	51.4	-3.0	82	19	28	15	42	2.85	+1.67	1.00	11.2	10	8	13	10	sw.	James Connell.
Alpine	Washington	5,907	10	4																

TOTAL PRECIPITATION MAY 1907



SCALE OF SHADES—IN INCHES.



Day of month.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF U. S. WEATHER BUREAU.

BY

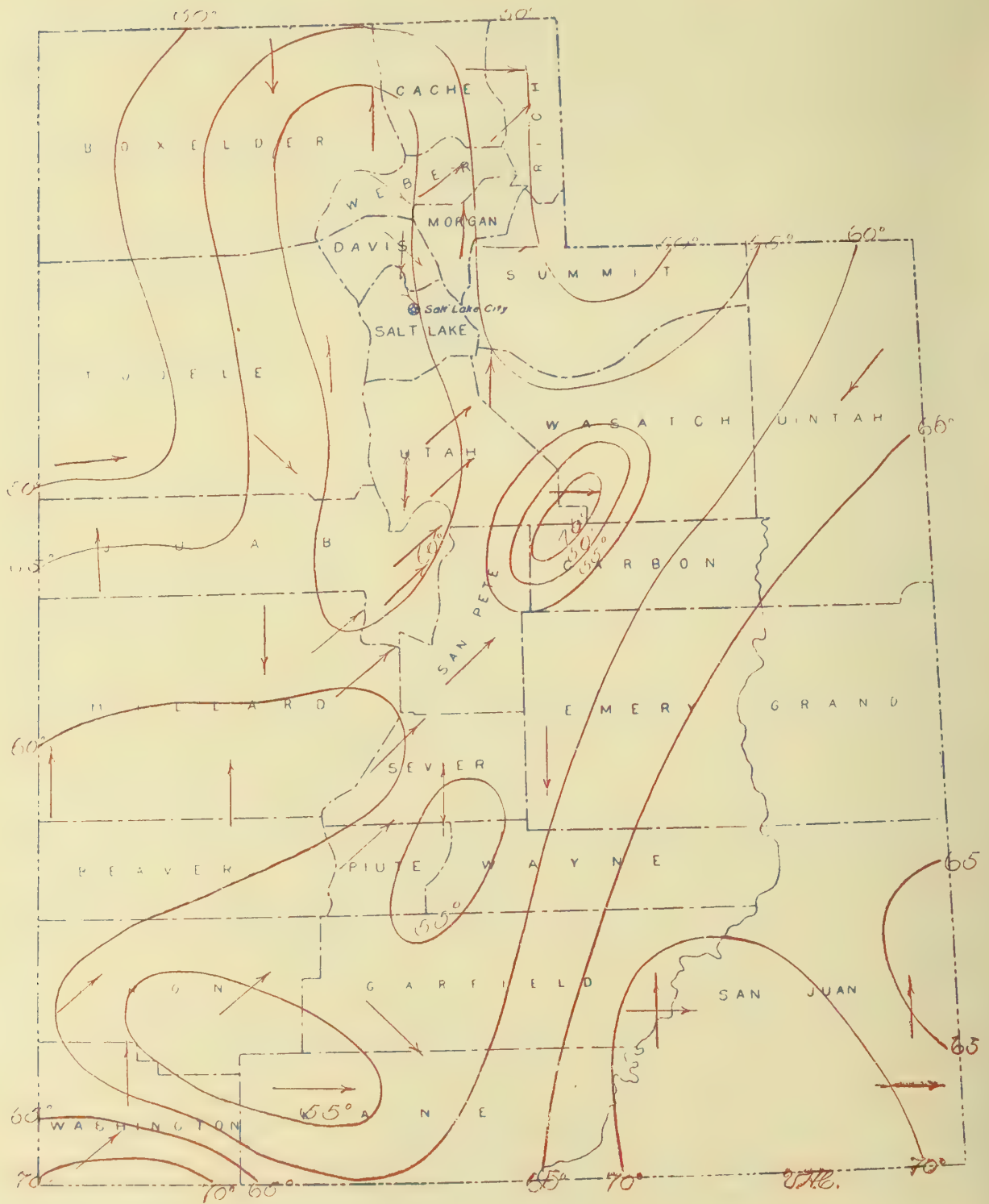
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
JULY 22, 1907

MEAN TEMPERATURES AND PREVAILING WINDS, JUNE, 1907.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, JUNE, 1907. No. 6

GENERAL SUMMARY.

The past month was the coolest June for this section of which there is any record. The mean temperature for the State was 58.8° , which was 6° below normal. The next lowest State average for June was 61.5° , recorded in 1894. The highest State average for the same month was 70.0° , recorded in 1896. Unusual cloudiness, especially in the northern and middle portions of the State was also characteristic of the month. The greatest deficiencies in temperature occurred principally during the second and third decades, and were quite uniformly distributed over the entire section. Frosts were frequent during this period, damaging frosts being general on the 15th, 16th and 22d. The highest monthly averages were confined to the southwestern and southwestern portions, and the lowest to the northern and northwestern portions of the State. The cloudiness during the first half of the month was abnormal, and there was considerable high wind and frequent thunderstorms during this period.

There was a great excess in the monthly precipitation, the average for the section, 1.22 inches, being more than three times the normal amount, and the greatest for June during the past 17 years, the period for which records have been kept. The rainfall was fairly well distributed, tho the greatest amounts occurred in the central mountainous districts of the middle and northern portions of the State. The greater part of the precipitation was recorded during the first half of the month, during which time there was some rainfall on nearly every day. During the latter half, however, the showers were comparatively infrequent and isolated.

The amount of sunshine was below the normal, the deficiency being pronounced during the first half of the month. The cloudiness was greatest over the northern, and least over the southern portion of the State. The month closed warm, and with an abundance of sunshine.

TEMPERATURE.

The mean temperature for the section, determined from the reports of 53 stations, was 58.8° , or 6.0° below the normal. The highest local monthly mean was 74.0° at St. George; the lowest was 43.2° at Soldier Summit. The highest temperature recorded was 105° at St. George on the 30th; the lowest was 16° at Lucin on the 16th, and at Soldier Summit on the 19th, giving a range for the section of 89° . The highest temperatures generally

occurred on the 28th, and the lowest on the 15th and 16th. The greatest local monthly range was 70° at Richfield, and the least was 42° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 64 stations, was 1.22 inches, or 0.85 inch above the normal. The excess was general over all portions of the State, and was nearly uniform in proportion to the normals of the respective stations. The greatest monthly amount was 3.27 inches at Ogden, and the least was 0.05 inch at St. George and Soldier Summit. The greatest precipitation in any 24 consecutive hours was 1.08 inches at Saltair Beach on the 8th. There was an average of 7 days with 0.01 inch or more of precipitation; 10 over the northern, 6 over the middle, and 7 over the southern portion.

WIND.

The prevailing direction of the wind for the section was southwest. The total number of miles recorded at Salt Lake City was 4,638; at Modena, 9,072; at Grand Junction, Colo., 4,580; and at Pocatello, Idaho, 5,930. The maximum velocity at Salt Lake City was 36 miles per hour from the northwest on the 12th; at Modena, 52 miles from the southwest on the 12th; at Grand Junction, Colo., 30 miles from the south on the 22d; and at Pocatello, Idaho, 32 miles from the southwest on the 11th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 13; partly cloudy days, 10; cloudy days, 7. Determined from the records of automatic sunshine recorders, Salt Lake City had 56 per cent; Modena 89 per cent; Grand Junction, Colo., 71 per cent; and Pocatello, Idaho, 67 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 54 per cent, the lowest observed reading being 14 per cent on the 21st; at Modena, 46 per cent, the lowest observed reading being 11 per cent on the 25th, 28th and 30th; at Grand Junction, Colo., 38 per cent, the lowest observed reading being 6 per cent on the 24th; and at Pocatello, Idaho, 56 per cent, the lowest observed reading being 15 per cent on the 3d and 28th.

OBSERVERS' REMARKS.

Aneth—The month of June was unusually cool, the temperature being much below the normal, except during the last week. There was also considerable high wind—Sophie Hubert.

Castle Rock—The fore part of the month was very stormy and cool, but the latter part was quite warm. Thunderstorms were frequent, and there were some killing frosts—David Moore.

Corinne—The latter part of the month was much warmer than the fore part. The precipitation was much above the normal—A. C. Murphy.

Emery—The fore part of the month was cloudy and showery. A heavy frost, that did much damage, occurred on the morning of the 15th—H. C. Wickman.

Government Creek—June was a very cold and disagreeable month, and as a result conditions generally are very backward—Walter James.

Heber—The past month was very cold and frosty. Several killing frosts occurred, and much damage resulted—John Crook.

Henefer—June was an unusually cold month, with several frosty nights—Wm. Brewer.

Huntsville—The fore part of the month was stormy, cloudy and cold, while the latter part was fair—Lars Petersen.

Marysvale—The month of June was generally cloudy, with temperature about 5° below normal. The precipitation was considerably above normal. Considerable damage was done by frosts—John W. Henry.

Meadowville—The month was unseasonably cool, with several killing frosts—J. S. Moffat.

Mt. Nebo—The fore part of the month was unseasonably cool, and several heavy frosts occurred. The latter part was considerably warmer—D. C. Walkey.

Nephi—The frost of the morning of the 16th did considerable damage—A. M. Madsen.

Ranch—The fore part of the month was very cold and windy—J. W. Seaman.

Richfield—The fore part of the month was unusually cold, and damaging frosts occurred on the 15th and 16th. The latter part was warm and pleasant—Simon Christensen.

Saltair Beach—June was unusually cold and stormy—Ernest B. Sones.

Sunnyside—The early part of the month was wet and cold, while the middle and latter parts were much warmer, the close of the month being decidedly sultry. Windstorms were frequent—Henry Cullum.

Vernal (near)—Considerable damage was done by frost on the nights of the 16th and 22d—Joab Collier.

PHENOLOGICAL RECORDS, 1906.

LEVAN, JUAB COUNTY, UTAH.

Latitude, 39° 37'; longitude, 111° 56'; elevation, 5,010 feet.
(Wm. Brown, Observer).

The cedar is the only forest tree found in this section. The most important fruits are the apple, peach, pear, plum, cherry, strawberry, raspberry, grape and apricot. The yield in each during the past year was generally very good, that of the peach, plum and apricot being excellent in both quality and quantity. The principal cereals cultivated are corn, wheat, oats and rye. The yield in wheat and oats was good; corn fair, and rye excellent. The crop of alfalfa was light, and of very poor quality. The yield in potatoes and small vegetables was generally good.

MARYSVALE, PIUTE COUNTY, UTAH.

Latitude, 38° 25'; longitude, 112° 15'; elevation, 6,180 feet.
(John W. Henry, Observer).

The cottonwood began leafing about April 23d, and the maple and quaking asp about May 1st. By May 10th the woods were green. The first leaves of the currant, gooseberry and apricot appeared respectively about April 14th, 16th and May 8th, the bloom appearing on the apricot about April 19th. The planting of corn and Irish potatoes began about the middle of April, and ended May 1st, the sowing of wheat being begun about a month earlier.

The first blue birds were seen February 22d; meadow larks, March 8th; robins, March 19th; butterflies, March 29th; doves, April 10th, and humming birds, April 22d. The first croaking of frogs was heard April 16th.

ERRATUM.

The following correction should be made in the May, 1907, number of the Monthly Report: The least monthly amount of precipitation for the section, 0.26 inch, occurred at Loa, instead of at Marysvale (near), as recorded.

WATER STAGES.

The level of Great Salt Lake on June 1st was 3.0 feet above zero; on June 15th, 3.2 feet above, and on July 1st, 3.6 feet above.

COMPARATIVE STATE DATA FOR JUNE.

Year.	Temperature.			Average Precipitation.
	Mean.	Highest.	Lowest.	
1892	65.0	116	22	0.46
1893	64.0	105	19	0.02
1894	61.5	106	15	0.84
1895	62.8	106	18	0.43
1896	70.0	112	21	0.20
1897	63.2	104	20	0.25
1898	65.2	110	22	0.78
1899	64.0	110	21	0.58
1900	69.7	111	30	0.16
1901	63.3	109	19	0.25
1902	66.9	114	21	0.17
1903	65.7	110	27	0.47
1904	63.3	102	21	0.47
1905	64.7	110	23	0.18
1906	62.2	106	22	0.59
1907	58.8	105	16	1.22

MISCELLANEOUS PHENOMENA.

Aurora—Mt. Nebo, 27.

Sleet—Government Creek, 13, 22; Henefer, 22.

Frost, heavy—Emery, 15; Levan, 15; Modena, 13.

Halo, solar—Levan, 27; Marysvale, 18; Theodore, 27.

Fog—Government Creek, 14; Henefer, 3; Ibapah, 9, 13; Salt Lake City, 11.

Frost, light—Emery, 14, 23; Ft. Duchesne, 16; Lucin, 17; Marion, 10, 17, 23, 25, 26; Modena, 16; Mt. Nebo, 14, 23, 24; Nephi, 15, 16; Salt Lake City, 14–17, 23; Scipio, 16; Theodore, 14; Woodruff, 10, 22.

Frost, killing—Annabella, 19–23; Deseret, 24, 25; Heber, 14–17, 23; Henefer, 16, 23; Huntsville, 15–17, 23; Kanab, 15; Marion, 10, 12, 14–17; Marysvale, 15, 16, 23; Meadowville, 14–16, 23; Moab, 17; Morgan, 15–17, 23; Mt. Nebo, 16; Nephi (near), 15, 16; Parowan, 15, 16; Provo, 15, 16; Richfield, 16; Theodore, 16; Vernal (near), 16.

Hail—Black Rock, 22; Government Creek, 2, 6, 13, 20; Heber, 1, 2; Henefer, 2, 5, 6, 12; Ibapah, 3, 5, 12, 16, 22; Marion, 4, 12, 13, 22; Marysvale, 1, 7, 12; Meadowville, 5, 14; Minersville, 7, 20; Modena, 5; Morgan, 13; Mt. Nebo, 9; Nephi, 9; Ogden No. 1, 13; Randolph, 12; Saltair Beach, 15; Salt Lake City, 12, 13; Scipio, 2; Snowville, 24; Sunnyside, 4, 5, 13; Theodore, 6, 12, 21; Torrey, 20; Tropic, 12, 19.

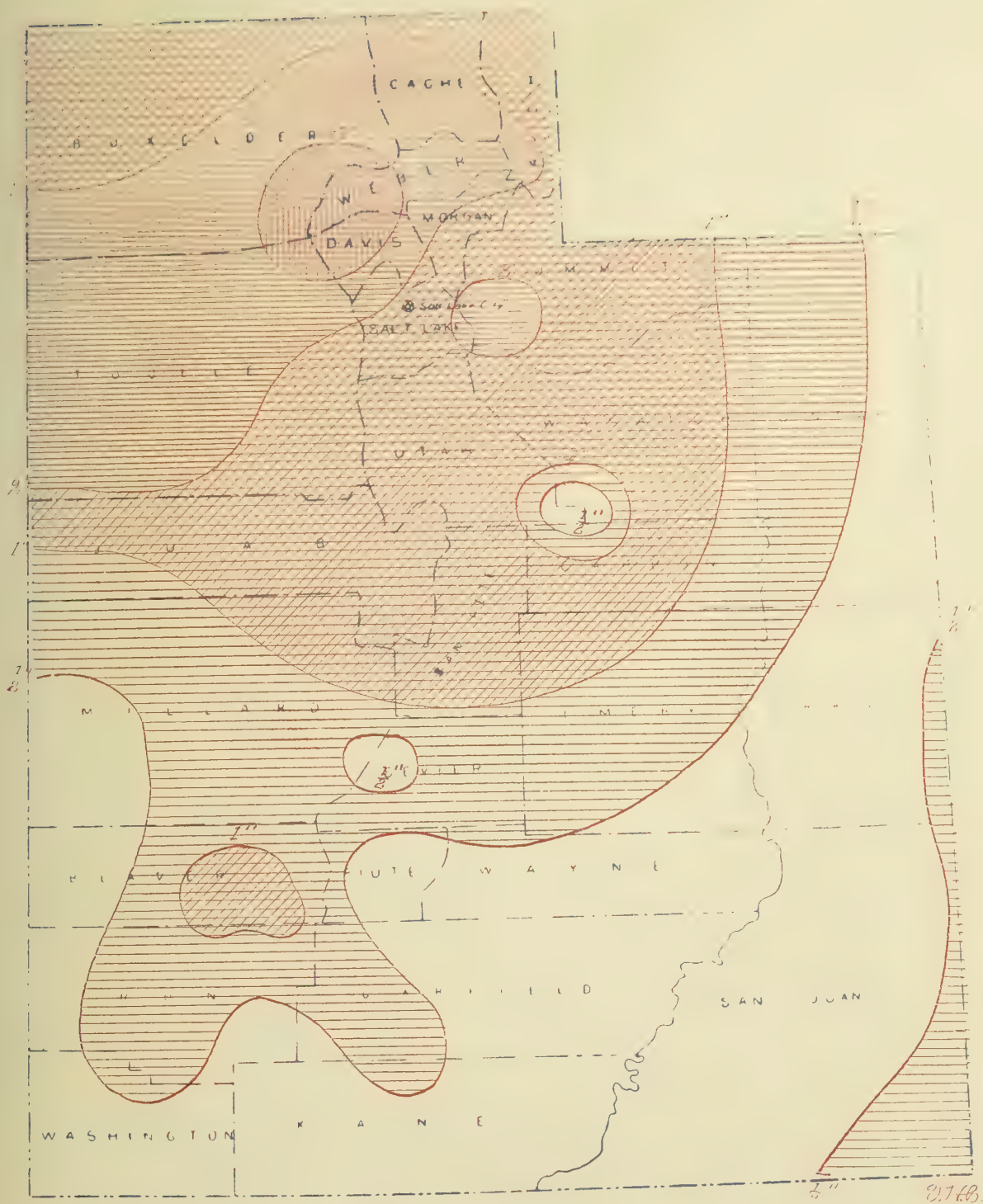
High winds—Aneth, 2, 8, 11–15, 18, 22; Black Rock, 11, Deseret, 1, 2, 4, 6, 10–12, 21, 22; Emery, 22; Enterprise, 12, 28, 29; Ft. Duchesne, 12, 21; Garrison, 11–14, 21, 28; Government Creek, 11, 21; Grayson, 12, 15; Heber, 22, 29; Henefer, 5, 11, 21; Hite, 12–15, 21, 22; Levan, 21; Marysvale, 6; Meadowville, 1, 6, 9, 20, 22; Modena, 1–7, 10–15, 19–24, 28, 29; Mt. Nebo, 11–13, 20, 21; Nephi (near), 12–14, 20–22; Parowan, 14, 20–22, Scipio, 21, 22; Sunnyside, 13–15, 29; Theodore, 22; Tropic, 3, 11, 14, 21; Vernal (near), 21, 22; Woodruff, 5.

Thunderstorms—Aneth, 2, 5, 21; Black Rock, 20, 29; Deseret, 1, 2, 4, 5, 7; Farmington, 1, 2, 6–8, 10, 12, 22; Ft. Duchesne, 5, 6; Government Creek, 2, 4–7, 12, 13, 20, 22; Heber, 1, 2, Henefer, 1, 2, 5–8, 12, 13, 25; Hite, 2, 3, 5, 8, 19; Huntsville, 6–8, 10–13, 22, 23; Ibapah, 6–8, 14; Kanab, 1, 5, 7, 8, 19; Levan, 1, 2, 4–7, 12; Lucin, 2–6, 11, 12, 14, 20, 22; Marion, 2, 6, 7, 12, 20, 23; Marysvale, 1, 2, 5, 7, 8, 12, 20; Meadowville, 2, 5, 13, 24, 25; Minersville, 7, 19, 20; Moab, 2, 3, 8, 19, 20, 29; Modena, 6, 19, 20; Morgan, 3, 6, 8, 10–14; Mt. Nebo, 4–6; Nephi, 1, 2, 5, 6, 12; Nephi (near), 1–6; Ogden No. 1, 6; Parowan, Provo, 1, 2, 5, 6; Ranch, 5, 8, 18; Randolph, 2, 4, 6, 8, 21–23; Richfield, 5; Saltair Beach, 2, 4, 6, 7, 13, 15, 22; Salt Lake City, 2, 4–7, 13, 22, 24; Scipio, 1, 2, 5–7; Snowville, 21, 24; Sunnyside, 4; Theodore, 2, 4–8, 12, 30; Tooele, 7, 13; Torrey, 20; Tropic, 1, 2, 5, 18, 19; Vernal (near), 3–7, 12, 19, 20.

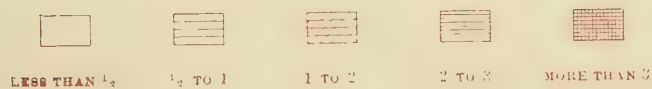
CLIMATOLOGICAL DATA, JUNE, 1907.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with 0.1 inch or more.	Number clear days.	Number partly cloudy days.			Number cloudy days.
NORTHERN.																				
Alpine.	Utah	4,900	11								1.77	+1.22	0.39	0.0	9					T. B. Whitby.
Alpine T.	Boxelder	4,240	37	63.6	-7.5	98	28	35	24	57	2.10	+1.62	0.68	0.0	8	9	12	9	8	Agent So. Pacific R. R.
Armington.	Davis	4,267	7	58.0	-7.9	89	28	32	16	44	2.00	+1.71	0.57	0.0	7	14	7	9	n nw	Charles Boylin.
Ch. Duchesne	Uinta	5,000	19	59.0	-6.6	92	28	32	23	48	0.72	+0.49	0.24	0.0	8	22	3	5		Post Surgeon.
Deber	Wasatch	5,666	14	55.2	-4.3	86	28	28	*15	50	1.47	+1.06	0.36	0.0	9	10	10	8		John Crook.
Deber	Summit	5,301	8	54.6	-4.8	85	28	26	16	49	1.48	+1.23	0.27	0.0	12	11	11	8	w.	William Brewer.
Deber	Weber	5,100	12								2.08	+1.61	0.59	0.0	9	10	12	8	sw.	Lars Petersen.
Deber	Boxelder	4,230	29								1.30	+1.00	0.70	0.0	3					Agent So. Pacific Co.
Deber	Cache	4,507	16	60.5	-3.2	81	27	38	*13	27	2.44	+1.84		0.0	10					Agricultural College.
Deber	Boxelder		2	49.6		84	4	16	16	58	1.54		0.40	15.4	12	12	3	15		Agent So. Pacific R. R.
Deber	Rich	6,200	8	51.8	-5.0	75	*21	27	15	36	1.49	+0.88	0.34	0.0	9	16	3	11	w.	J. S. Moffat.
Deber	Cache	4,848	12								2.22	+1.64	0.60	0.0	11					Fred Yeates.
Deber	Morgan	5,680	4	54.6		89	31	28	16	50	1.37		0.33	0.0	12	14	10	6	sw.	T. R. G. Welch.
Deber	Weber	4,310	6	60.8	-7.3	88	29	38	15	30	3.27	+2.86	0.67	0.0	9	16	9	5	nw.	Enoch Farr.
Deber	Weber	4,310	37																	W. H. Chevers.
Deber	Summit	7,800	10	51.0	-7.7	77	*28	19	17	51	2.38	+2.22	0.60	1.5	12	14	12	1		J. M. Martin.
Deber	Bannock	4,483	7	57.5	-6.7	82	27	34	15	37	1.89	+0.80	0.50	0.0	13	13	14	3	se.	Weather Bureau.
Deber	Rich		2								1.83		0.41	0.0	10	22	3	5	sw.	Wm. Rex.
Deber	Salt Lake		3	60.4		80	*21	38	16	32	2.24		1.08	T.	10					Ernest B. Sones.
Deber	Salt Lake	4,366	33	60.2	-8.1	86	28	37	15	33	1.49	+0.72	0.38	0.0	12	11	7	12	nw.	Section Center.
Deber	Boxelder	4,360	17	54.7	-6.9	83	28	25	*15	43	1.63	+1.15	0.40	0.0	11	10	10	10	s.	Joseph Robbins.
Deber	Wasatch		1																	A. B. Larson.
Deber	Wasatch	5,507	1	57.9		88	28	33	*14	39	1.61		0.54	0.0	9	8	10	12		M. M. Smith.
Deber	Tooele	4,900	11	59.7	-7.1	87	28	32	15	34	1.68	+1.11	0.50	0.0	9	12	4	14	s.	I. J. Elkington.
Deber	Uinta		12	63.8	-3.2	93	28	38	16	42	0.50	+0.11	0.19	0.0	8	15	11	4	ne.	Joab Collier.
Deber	Rich	6,500	10	50.2	-5.2	78	27	25	16	48	2.23	+1.92	0.50	0.0	8					C. G. Youngberg.
Averages				56.9	-6.0						1.78	+1.29		0.8	10	13	8	9	s.	
MIDDLE.																				
Black Rock	Millard	4,872	7	60.7	-3.6	94	28	31	*15	47	0.53	+0.27	0.31	0.0	3	11	9	10	s.	Willard Burbank.
Castle Dale	Emery	5,500	8	59.5	-4.6	91	30	31	16	42	1.16	+0.83	0.42	0.0	8	16	14	0		James Jeffs.
Deseret	Millard	4,541	13	58.2	-7.6	90	*28	22	24	51	1.07	+0.76	0.30	0.0	7	12	6	12	n.	S. W. Western.
Emery	Emery	6,260	7	56.5	-2.3	86	*28	29	*1	46	0.55	+0.12	0.35	0.0	2	5	4	21	n.	H. C. Wickman.
Emery	Millard	5,100	17	62.9	-5.2	96	29	30	*15	49	0.88	+0.29	0.38	0.0	8					J. J. Starley.
Emery	Millard		4	60.2		91	30	27	15	50	0.20		0.20	0.0	1	15	1	11	s.	E. M. Smith.
Emery	Tooele	5,277	7	57.5	-6.9	88	28	28	15	42	1.96	+1.79	0.65	0.0	11	13	9	8	nw.	Walter James.
Emery	Mesa	4,608	16	66.8	-5.8	93	28	43	16	38	0.60	+0.25	0.38	0.0	5	18	7	5	nw.	Weather Bureau.
Emery	Emery	4,080	10																	F. P. Fullmer.
Emery	Tooele	7,500		48.8		79	26	22	16	40	2.77		0.62	2.0	11	10	8	9	w.	J. S. Lawton.
Emery	Juab	5,010	17	58.0	-6.1	87	28	29	15	43	1.35	+0.83	0.51	0.0	6	10	9	11	sw.	William Brown.
Emery	Sanpete	5,575	13	57.6	-8.7	88	28	29	16	44	1.33	+1.20	0.47	0.0	7	0	29	1	sw.	W. M. Harmon.
Emery	Utah	4,650	6	63.1	-3.9	87	30	34	16	32	1.06	+0.81	0.26	0.0	9	11	10	9	s-n.	D. C. Walkey.
Emery	Sanpete	5,859	15	58.4	-6.4	95	27	30	*14	45	1.25	+0.80	0.42	0.0	5	13	17	0		Web Greene.
Emery	Juab		2								1.30		0.37	0.0	10	11	10	3	sw.	A. Madsen.
Emery	Millard		2	62.8		95	28	29	15	45	1.37		0.44	0.0	6	17	5	8	sw.	J. Finlison.
Emery	Utah	4,637	2								1.80		0.38	0.0	10	15	5	7	sw.	D. L. Coombs.
Emery	Utah	4,532	15	59.8	-4.8	88	28	32	15	43	1.70	+1.26	0.50	0.0	6	8	13	9	sw.	W. K. Henry.
Emery	Sevier	5,352	17	61.2	-2.9	91	29	29	16	52	0.15	+0.15	0.10	0.0	2	13	13	4	sw.	S. Christensen.
Emery	Millard	5,260	12	57.8	-6.6	91	28	24	16	50	1.22	+0.92	0.25	0.0	9	6	12	12	sw.	Thomas Memmott.
Emery	Utah	7,474	15	43.2	-12.0	70	*27	16	19	42	0.05	-0.15	0.02	0.0	3	2	28	0	w.	Agent Rio Grande R. R.
Emery	Utah	5,075	15	58.0	-5.1	90	26	28	*15	59	1.30	+0.95	0.50	0.0	3	9	9	12		Ag. Rio Grande W. R. R.
Emery	Juab		2	58.3		90	28	27	15	45	0.68	+0.30	0.43	0.0	2	13	16	1	s.	Mrs. W. A. Edwards.
Emery	Utah		2																	W. A. Knight.
Emery	Carbon	5,540	8								1.16	+0.70		0.1	6	11	12	7	sw.	Melville Branch.
Averages				58.0	-6.5															
SOUTHERN.																				
Beaver	San Juan	4,800	7	70.5	-1.7	98	28	43	16	46	0.54	+0.20	0.22	0.0	3	23	6	1	w.	Miss S. Hubert.
Beaver	Beaver		2																	A. B. Anderson.
Beaver	Iron		3																	J. M. Foster.
Beaver	Garfield		6																	H. J. McCullough.
Beaver	Garfield	5,700	7																	Geo. H. Barney.
Beaver	Washington		3	70.0		100	*27	40	15	47						15	8	7		Joseph T. Atkin.
Beaver	Beaver	7,318	13																	Prof. Albert Warren.
Beaver	San Juan		2	61.2		90	*28	30	3	45	0.43		0.20	0.0	3	21	5	4	s.	Joseph D. Lyman.
Beaver	Garfield	3,000	8	72.4	-6.5	103	28	48	9	46	0.48	+0.36	0.21	0.0	4	21	7	2	s-w.	F. W. Gibbons.
Beaver	Kane	4,925	7	58.2		91	28	24	13	50	0.40		0.20	0.0	3	18	12	0		E. M. Ford.
Beaver	San Juan	7,000	7																	Mrs. G. W. Carpenter.
Beaver	Wayne	7,000	15	51.6	-7.9	85	28	23	15	45	0.35	+0.17	0.20	0.0	3					Michael Hansen.
Beaver	Piute	6,180	8	56.4	-5.3	87	28	26	15	47	0.44	+0.93	0.17	0.0	11	7	11	12	sw.	John W. Henry.
Beaver																				W. H. Hall.
Beaver	Beaver	5,070	10								1.05	+0.83	0.53	0.0	5					Geo. Roberts, Sr.
Beaver	Grand	4,000	18	68.0	-4.4	92	28	38	17	49	0.37	+0.16	0.16	0.0	4					Henry Crouse.
Beaver	Iron	5,479	7	58.2	-2.7	90	28	32	13	45	0.50	+0.30	0.26	0.0	9	11	10	9	sw.	Weather Bureau.
Beaver	Iron	5,970	16	59.1	-5.4	89	28	27	*15	45	0.31	+0.10	0.19	0.0	4	12	16	2	sw.	James Connell.
Beaver	Washington	5,907	10	55.2	-5.5	88	27	25	15	52	0.62	+0.38	0.62	0.0	1	15	3	4	s.	J. H. Harrison.
Beaver	Sevier	7,000	5																	

TOTAL PRECIPITATION JUNE 1906



SCALE OF SHADES—IN INCHES.



DAILY PRECIPITATION, JUNE, 1907.

Stations	Day of month.																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHERN.																																	
Alpine	.11	.37		.08		.39	.11	.19		.08			.23							.21													
Castle Rock		.08			.06		.25	.18				.50		.12									.07										
Corinne	.20				.08		.68	.25				.04	.25	.18							.42	T.											
Farmington		.06				.22	.57	.35	T.			.20	.37	.23																			
Ft. Duchesne		.10			.11	.04	.03	.24	.01			.13	.06								T.												
Grantville (near)																																	
Heber	*	.36		.14	T.	.26	.06	.15	.03			.35	.12	T.						T.	T.	T.											
Henefer		.20		T.	.07	.27	.20	.15	.06	.02		.15	.12	.15	.01							.08								T.			
Huntsville		.33				.59	.14	.40				.29	.20	.03						.04		.06											
Kelton	*	.32			.28							T.								T.		.70											
Logan		.10			.11	*	.68	.45				T.	.28	.27								.35											
Lucin		.10	.02			.12	T.	.02	.15			T.	.08	.05	.40	T.				.10	.10	.30	T.										
Marion		.31		.05		.16	.23	.34	.11	.02	T.	.33	.21	.03	.02					T.		.12								T.			
Meadowville		.06			.25	.09	.08	.34			T.	.22	.05									.10	.30										
Millville		.59			.09	.04	.60	.24	T.		.06	.20	.09							.03	T.	.24	.04										
Morgan		.12	T.	T.	.06	.33	.08	.14	.06	.09	.05	.15	.11	.02								.16										T.	
Ogden No. 1		.27			T.	.50	.67	.43		T.	.10	.25	.33	.20								.52											
Ogden No. 2																																	
Park City		.15		.05	.60		.40	.20	.18	.05		.40	.10	.05	.10							.10											
Pocatello, Idaho	T.			.01	.04	.31	.02	T.		.09	.01	.50	.06		.17						.03	.11											
Randolph	T.	.41		.26	T.	.23		.22		.06	.18									.02		.26	.07		.39	.09							
Saltair Beach		.09		T.		.07	.01	.08	.03	T.	T.	.05	.31	.03	.33	T.						.24	T.										
Salt Lake City	T.	.08		.02	T.	.15	.08	.32	.02	.01	T.	.12	.13	.10	.08							.38										T.	
Snowville	.15				.28		.17			.05	.05	.05	.15	.10						.08		.40			.15								
Strawberry Valley																																	
Theodore	T.			.07	.23	.09	.51	.54	T.	T.		.07	.01							T.	.06	.03											
Tooele		.10		.50		.09	.15	.26		.11		.05	.18									.24											
Vernal (near)		.03			.03	.02	.19	.06	.07			.06										.04											
Woodruff		.48		.10		.25	.32	.50		.05	.12														.41								
MIDDLE.																																	
Annabella (near)								.70				.08								T.	.02												
Black Rock		.06	T.					.31				T.								.16		T.											
Castle Dale	.02	.35		.15	.05	.05	T.	.42	.02		T.										.10												
Deseret		.12			.10		.30	.25	.10			.10								.10		T.											
Emery				T.	T.	T.	.20	.35																									
Fillmore		.05			.05	.01		.38				.17	.05							.07	.10												
Garrison	T.	.05	T.		T.	T.	T.	.20			T.	T.																					
Government Creek		.08		T.	.07	.65	.10	.08	.03	T.		.19	.37	T.	.02					.20		.17											
Grand Junction, Colo.		.32		T.	T.	.05		.10	.02											.11												T.	
Green River																																	
Hatch (near)		.28		.05	T.	.10	.48	.24			T.	.20	.22	.62	.05	T.						.48		.05								T.	
Levan	T.	.46		T.	.13	.09	.51	.05		.11												T.											
Manti		.05	.47		.06	.15	.29	.16				.15																					
Mount Nebo	T.	.26		.05	.04	.20	.09	.25	.01			.03	.13	T.	T.							T.											
Mount Pleasant		.20			.21	.42	.24				.18																						
Nephi	T.	.02	.08	.01	T.	.23	.12	.37	.07		.19	.20	.01																				
Nephi (near)		.38		.10	.33		.46	.11				.20																					
Oak City	.17	.24				.15	.28				.09	.44																					
Payson		.32		.14	.34	.11	.05	.14			.38	.18								.05		.09											
Provo		T.	T.		T.	.20	.20	.30	.50	T.			T.										.20										
Richfield						.10	T.					.05																					
Scipio	.23	.25	.13		T.	.03	.06	.25		T.	T.		.02								T.	.08	.15										
Soldier Summit			T.	T.	T.	T.	T.	.01				.02										.02											
Sunnyside		.50		.15	.17	*	.25	T.				.13																					
Thistle		.50				.40						.40																					
Trout Creek	T.	T.	T.			.43							.25																				
Utah Lake Pumping Station																																	
Wellington																																	
SOUTHERN.																																	
Aneth			.20		.12															.22													
Beaver																																	
Cedar City																																	
Coyote																																	
Enterprise (near)	T.				.02		.50	.12													T.												
Escalante																																	
Frisco																																	
Grayson			T.	T.																													

567.6
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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF U. S. WEATHER BUREAU.

BY
R. J. HYATT,
SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
AUGUST 23, 1907

U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

Vol. IX.

SALT LAKE CITY, UTAH, JULY, 1907.

No. 7

GENERAL SUMMARY.

There were no marked departures from normal conditions during the month of July. Clear weather was the rule, and the cloudy periods were of comparatively brief duration. The temperature average for the State was 70.1° , being slightly below the normal. The deficiency was evenly distributed over the section. The temperature averaged highest in the southeastern, southwestern and west-central portions, and lowest in the northeastern and northwestern portions of the State. The maximum for the month was 108° , recorded at Corinne, Boxelder county, on the 2d, and the lowest, 29° , at Lucin, Boxelder county, on the 19th and 20th. The lowest temperatures generally occurred on the 16th, and light killing frosts were reported in exposed localities in the northern portion of the State on this date. The highest temperatures were generally recorded on the 23d.

While the precipitation, as compared with that of June, seemed relatively light, still the rainfall average for the State was slightly above the normal. The principal part of the excess occurred over the middle and southern portions of the State, there being a deficiency over the northern portion. The heaviest precipitation occurred over the western half of the State. In Iron and Washington counties the amount exceeded 2 inches, while in the central mountainous regions and eastern portion of the State the rainfall averaged considerably less than 1 inch. The periods of greatest precipitation occurred during the middle of the second and third decades, and were quite general over the State. Thunderstorms were frequent during the latter part of the month. An unusually severe thunderstorm, accompanied by heavy wind, and, in some localities, by hail, occurred over the northern half of the State on the afternoon of the 27th. The damage to electric light, telephone and telegraph lines, and small buildings, was extensive.

The percentage of sunshine was above the normal. Clear conditions prevailed thruout the month, with the exception of the last week, when there were frequent thunderstorms and considerable cloudiness.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 51 stations, was 70.1° , which was 0.8° below the normal. The deficiency, tho slight was general over all sections. The highest local monthly mean was 83.2° at Hite, and the lowest was 59.8° at Silver Lake. The highest temperature recorded was

108° at Corinne on the 2d, and the lowest, 29° at Lucin on the 19th and 20th, giving a range for the section of 79° . The highest temperatures principally occurred on the 2d, 3d, 22d and 23d, and the lowest on the 16th, 17th and 18th. The greatest local monthly range was 70° at Vernal, and the least was 35° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 62 stations, was 0.58 inch, which was 0.01 inch above the normal for the State. The rainfall over the northern section was generally deficient, the average being 0.16 inch below the normal. Over the middle and southern sections, it averaged considerably in excess of the normal amount. The greatest monthly amount was 2.46 inches at Modena; no precipitation occurred at Logan or Woodruff. The greatest precipitation in any 24 consecutive hours was 2.17 inches at Modena. There was an average of 3 days with 0.01 inch or more of precipitation; 2 over the northern, and 3 over the middle and southern sections.

WIND.

The prevailing directions for the section were south and southwest, each direction being reported from an equal number of stations. The total number of miles recorded at Salt Lake City was 4,606; at Modena, 8,699; at Grand Junction, Colo., 3,678; and at Pocatello, Idaho, 4,867. The maximum velocity at Salt Lake City was 41 miles per hour from the southwest on the 12th; at Modena, 50 miles from the southwest on the 4th; at Grand Junction, Colo., 27 miles from the northwest on the 10th; and at Pocatello, Idaho, 40 miles from the south on the 14th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 17; partly cloudy days, 10; cloudy days, 4. Determined from the records of automatic sunshine recorders, Salt Lake City had 78 per cent; Modena 88 per cent; Grand Junction, Colo., 77 per cent; and Pocatello, Idaho, 88 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 37 per cent, the lowest observed reading being 16 per cent on the 23d; at Modena, 38 per cent, the lowest observed reading being 8 per cent on the 18th; at Grand Junction, Colo., 36 per cent, the lowest observed reading being 7 per cent on the 15th; and at Pocatello, Idaho, 43 per cent, the lowest observed reading being 10 per cent on the 19th.

OBSERVERS' REMARKS.

Castle Rock—The fore part of the month was hot and dry. Thundershowers were frequent during the latter part—David Moore.

Corinne—Warm, clear weather prevailed during the greater part of the month—Agent S. P. Ry.

Emery—Conditions were favorable during the month, with plenty of warm weather—H. C. Wickman.

Government Creek—The month was unusually warm and sultry—Walter James.

Heber—The month of July was very hot and dry. There were very high winds on the 13th and 21st, and considerable damage was done to trees and fences—John Crook.

Henefer—The weather during the month was favorable. The precipitation was very light, but water for irrigation purposes continued plentiful—William Brewer.

Huntsville—Hot and dry weather was the rule during the entire month—Lars Petersen.

Marion—A frost that did some damage occurred on the morning of the 16th. There was a heavy thunderstorm on the 27th, one person being killed by lightning in this vicinity—James Woolstenhulme.

Marysvale (near)—The temperature during the month was about normal, while the precipitation was below the normal—John W. Henry.

Meadowville—The past month was very dry, with cool nights. High winds were frequent—J. S. Moffatt.

Minersville—Heavy rains occurred in this vicinity on the 23d and 25th, which added quite materially to the water supply—George Roberts.

Mt. Nebo—July was extremely hot, with much high wind, but little precipitation. The supply of water during the month was quite sufficient for irrigation purposes—D. C. Walkey.

Pinto—The first two decades of the month were very dry, but on the 24th and 25th there was an abundance of precipitation—J. H. Harmon.

Provo—A severe electrical storm occurred on the 4th. The month was generally very warm, with considerable high wind—Wm. K. Henry.

Ranch—The month was dry and warm, but generally very pleasant. There was a marked deficiency in the amount of precipitation, and rainfall was badly needed in the arid districts—J. W. Seaman.

Richfield—The month was unusually warm, but with considerable precipitation, and conditions were generally very favorable—Simon Christensen.

Sunnyside—Sultry and oppressive conditions prevailed during the month—Henry Cullum.

Theodore—Water was very high in streams during the first week in July, and considerable damage resulted from overflows—M. M. Smith.

Tooele—A heavy thunderstorm occurred on the evening of the 27th—Isaac J. Elkington.

MISCELLANEOUS PHENOMENA.

Aurora—Theodore, 12.

Corona, lunar—Tropic, 22.

Frost, killing—Marion, 16.

Frost, light—Henefer, 16; Silver Lake, 16; Woodruff, 15.

Hail—Hite, 26; Modena, 25; Silver Lake, 27; Snowville, 27.

High winds—Aneth, 8, 9, 13, 14; Black Rock, 4, 8, 12–16, 20, 26; Garrison, 2–4, 8, 12, 19; Government Creek, 3, 4, 14, 19; Heber, 13, 21; Henefer, 3; Levan, 14, 19; Marion, 3; Meadowville, 3, 12, 15; Mt. Nebo, 7, 8, 13, 14, 25, 27; Modena, 3, 4, 7–10, 13, 14, 19, 20, 24, 25, 31; Nephi (near), 3, 4, 14, 19; Provo, 10, 19; Richfield, 4; Saltair, 27; Salt Lake City, 8, 12, 14, 20, 27; Theodore, 19; Tropic, 13.

Thunderstorms—Aneth, 13, 23–26; Black Rock, 3, 9, 11, 12; Emery, 3; Farmington, 8, 12, 13, 25–27; Government Creek, 3,

4, 9–13, 24–27; Heber, 3, 12, 21; Henefer, 4, 8, 12, 20, 25, 27; Hite, 9, 13, 22, 24; Huntsville, 26, 27; Ibapah (near), 12, 14, 24, 26, 30, 31; Kanab, 8, 9; Levan, 3, 9, 11–13, 25–27, 31; Lucin, 3, 12, 25, 26, 31; Marion, 3, 5, 20, 24, 27; Marysvale (near), 9, 11, 12, 24–26, 30; Meadowville, 20; Minersville, 23, 25; Moab, 13, 14, 20, 22–24, 26, 27; Modena, 9–11, 24, 25, 31; Mt. Nebo, 24, 26; Nephi, 3, 9, 13, 20, 26; Nephi (near), 13, 27, 28; Parowan, 9, 12, 31; Plateau, 12; Provo, 4, 25, 27; Ranch, 3–5; Richfield, 12, 13, 24; Richfield, 9, 12, 26, 27, 30, 31; Saltair, 27; Salt Lake City, 3, 4, 8, 9, 12, 13, 25, 27, 28; Scipio, 9, 31; Silver Lake, 12, 20, 25, 27; Snowville, 3, 14; Theodore, 3, 8, 9, 11–13, 20, 24, 27; Tooele, 27; Tropic, 1, 9, 12, 23–27, 30; Vernal (near), 14; Woodruff, 12, 14.

COMPARATIVE STATE DATA FOR JULY.

Year.	Temperature.			Average Precipitation
	Mean.	Highest.	Lowest.	
1892	72.8	110	27	0.28
1893	70.8	110	24	0.79
1894	70.4	109	26	0.71
1895	70.0	110	33	0.87
1896	72.0	111	33	1.81
1897	68.7	110	23	0.55
1898	73.4	115	28	0.35
1899	73.3	107	30	0.66
1900	72.6	111	30	0.09
1901	75.5	115	27	0.41
1902	68.4	112	17	0.32
1903	71.0	110	27	0.52
1904	69.7	109	27	0.68
1905	71.5	112	26	0.52
1906	71.6	110	30	0.85
1907	70.1	108	29	0.58

MONTHLY AND ANNUAL PRECIPITATION AT SALT LAKE CITY, UTAH.

Year.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1874	.....	.....	1.31	0.90	2.84	0.74	2.42	1.63	0.20	1.74	2.16	0.73	.....
1875	3.95	0.79	2.81	1.50	2.91	0.90	1.01	0.25	1.52	1.36	5.81	2.03	23.0
1876	1.23	1.52	4.00	2.69	4.30	0.09	0.83	0.92	0.42	3.27	0.81	1.80	21.4
1877	0.87	0.38	2.93	2.14	3.49	0.80	0.02	0.28	0.90	2.41	1.02	1.11	16.1
1878	1.07	3.49	2.54	2.63	2.50	0.35	1.08	0.81	3.15	1.39	0.63	0.11	19.1
1879	1.87	0.71	0.67	3.26	0.10	1.34	0.07	0.06	0.01	1.62	0.32	3.68	13.5
1880	0.29	1.02	0.43	2.37	1.85	0.01	0.20	0.74	0.56	0.40	1.17	1.90	10.6
1881	1.24	2.44	0.88	2.37	2.55	0.28	1.61	0.37	2.19	1.44	1.24	15.8	.....
1882	1.50	0.42	1.12	3.81	0.20	2.24	0.30	1.61	0.37	2.89	0.54	1.92	16.1
1883	1.47	0.72	1.75	2.92	0.98	0.33	0.10	0.62	0.13	2.24	1.78	1.20	14.5
1884	0.71	2.23	3.69	2.89	1.78	0.33	0.27	0.73	1.01	0.35	0.50	2.12	17.5
1885	1.48	1.56	0.64	3.47	2.49	2.67	0.58	0.90	1.29	0.59	3.10	0.92	10.5
1886	1.91	1.36	2.60	4.43	0.06	1.02	T.	0.59	1.88	1.98	1.79	1.27	18.1
1887	2.36	1.41	0.35	1.87	0.73	0.37	1.23	0.69	0.55	0.30	2.25	1.55	11.0
1888	1.52	1.22	2.18	0.99	0.34	0.98	0.24	0.63	0.51	0.80	2.20	2.21	13.1
1889	0.73	0.81	1.64	1.52	2.97	0.01	0.08	0.92	0.52	3.85	1.04	4.37	18.4
1890	3.07	2.05	1.12	0.94	0.16	0.32	0.02	0.79	T.	1.44	T.	0.42	10.3
1891	0.74	0.76	4.66	1.49	0.72	1.08	0.47	0.46	1.19	1.26	0.90	2.19	15.0
1892	1.61	0.68	2.21	1.00	1.05	1.21	T.	0.05	0.12	1.58	0.72	2.35	11.0
1893	0.82	1.61	2.68	2.72	1.68	0.04	1.19	0.71	1.30	1.02	1.18	2.37	17.5
1894	1.31	0.83	1.73	1.67	1.22	1.38	0.82	0.87	2.87	1.01	0.28	1.28	15.2
1895	1.32	0.85	0.81	0.73	2.29	0.99	0.42	0.02	0.95	0.24	2.44	0.89	11.0
1896	1.26	0.69	1.99	2.53	3.67	0.25	1.35	1.47	0.52	0.70	3.15	0.81	18.4
1897	1.16	3.81	2.20	2.00	0.98	0.52	0.69	0.33	0.48	1.91	1.19	1.17	16.7
1898	0.58	0.38	1.71	1.30	4.19	1.45	0.15	1.35	0.15	1.57	1.95	1.28	16.0
1899	0.84	2.98	2.93	0.81	2.59	0.90	0.42	1.06	T.	2.85	1.52	0.61	17.5
1900	0.44	1.30	0.33	2.91	0.44	0.68	0.32	0.72	1.44	1.99	1.40	0.16	11.5
1901	0.95	1.77	2.48	0.87	4.27	0.49	0.31	1.22	0.66	0.98	0.92	1.16	16.0
1902	0.80	1.17	1.22	3.69	0.33	0.37	0.56	0.15	0.05	0.52	1.24	1.31	11.4
1903	2.11	0.82	1.35	1.11	3.55	0.74	0.14	0.43	0.84	0.81	2.21	0.51	14.0
1904	1.45	2.25	3.90	2.20	3.08	0.27	0.59	0.28	1.12	1.18	0.00	0.90	16.3
1905	0.68	1.22	2.62	1.70	2.74	0.23	0.62	0.58	2.07	0.24	0.73	0.83	11.2
1906	1.19	1.90	2.84	3.08	3.17	1.49	0.23	2.28	1.49	0.39	2.10	1.06	21.2
Av.	1.30	1.11	2.61	2.15	2.03	0.74	0.51	0.78	0.86	1.43	1.40	1.43	16.6

WATER STAGES.

The level of Great Salt Lake on July 1st was 3.6 feet above zero on July 15th, 3.8 feet above, and on August 1st, 3.5 feet above.

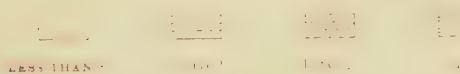
CLIMATOLOGICAL DATA, JULY, 1907.

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.					Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in month	Days with at least one inch of more	Number clear days	Number partly cloudy days	Number cloudy days			
NORTHERN.																					
Alpine	Utah	4,900	11																	T. B. Whitby.	
Corinne	Boxelder	4,210	37	77.0	-2.2	108	2	40	16	51	0.50	+0.06	0.50	0.0	1	19	9	3	S & SW	Agent So. Pacific R. R.	
Drummond	Davis	4,267	7	72.1	-0.2	96	12	42	10	41	0.34	-0.11	0.28	0.0	2	23	7	1	S & SW	Charles Boylin.	
El Duchesne	Uinta	5,000	10	69.6	-1.5	96	*4	11	10	49	0.95	+0.45	0.70	0.0	3	28	3	3	S	Post Surgeon.	
Heber	Wasatch	5,666	14	65.8	0	94	*23	35	10	50	0.07	-0.74	0.05	0.0	2	22	8	1	S	John Crook.	
Hatch	Summit	5,301	7	64.9	+0.6	92	22	33	10	51	0.48	+0.43	0.23	0.0	3	19	10	2	W.	William Brewer.	
Huntsville	Weber	5,100	12								0.11	-0.27	0.11	0.0	1	26	10	1	W.	Lars Petersen.	
Kelton	Boxelder	4,230	49																	Agent So. Pacific Co.	
Logan	Cache	4,507	16	71.0	-0.1	92	23	15	16	33	0.00	-0.39	0.00	0.0	9					Agricultural College.	
Lure	Boxelder	4,230	2	91.5		98	*22	29	*10	93	1.10		0.90	0.0	5	17	9	5		C. J. Burke	
Meadowville	Rich	6,200	8	62.3	-2.2	86	22	35	16	42	T.	-0.55	T.	0.0	0	25	5	1	W.	J. S. Moffat.	
Mt.ville	Cache	4,848	12								0.06	-0.36	0.06	0.0	1					Fred Yeates.	
Morgan	Morgan	5,680	4																	T. R. G. Welch.	
Ogden No. 1	Weber	4,310	6	73.6	0	94	23	47	15	36	0.23	-0.65	0.12	0.0	2	21	9	1	nw.	Enoch Farr.	
Ogden No. 2	Weber	4,316	37																	W. H. Chevers.	
Park City	Summit	7,800	10	61.0	-1.2	92	21	33	16	57	1.25	+0.79	0.96	0.0	4	17	8	5		J. M. Martin.	
Pocatello, Idaho	Bannock	4,483	7	69.2	-2.0	94	31	43	16	42	0.26	-0.27	0.20	0.0	7	21	10	0	se.	Weather Bureau.	
Rendolph	Rich		2								0.04		0.04	0.0	1	26	4	1	sw.	Wm. Rex.	
Salt Lake Beach	Salt Lake		3	73.1		88	*8	53	10	24	0.23		0.12	0.0	3					Ernest B. Sones.	
Salt Lake City	Salt Lake	4,396	33	74.6	-1.6	95	22	52	16	32	0.19	-0.35	0.15	0.0	1	21	8	2	se.	Section Center.	
Silver Lake—T8				59.8		85	23	32	16	43	0.44		0.14	0.0	4	14	8	0		N. J. Ferhaff.	
Snowville	Boxelder	4,360	17	66.6	-2.4	96	30	34	*15	59	0.19	-0.18	0.08	0.0	3	19	12	0	s.	Joseph Robbins.	
Strawberry Valley	Wasatch		1																	S. A. Chivers.	
Theodore	Wasatch	5,507	1	69.2		92	*2	41	16	41	0.79		0.41	0.0	6	4	18	9		M. M. Smith.	
Tooele	Tooele	4,900	11	72.8	-0.8	92	*23	47	15	32	0.43	+0.01	0.25	0.0	2	23	4	4	S	I. J. Elkington.	
Vernal near—T8	Uinta		12	74.0	+2.5	102	7	52	20	45	0.29	-0.45	0.10	0.0	4	17	1	5		Joab Collier.	
Woodruff	Rich	6,500	10	61.2	+0.4	102	12	35	2	58	0.00	-0.44	0.00	0.0	0	27	1	1		C. G. Youngberg.	
Averages				68.5	-0.7						0.36	0.16		0.0	2	20	8	3	S.		
MIDDLE.																					
Black Rock	Millard	4,872	7	73.4	+4.6	100	23	45	*1	50	0.04	-0.46	0.02	0.0	3	16	11	4	S.	Willard Burbank.	
Castle Dale—T1	Emery	5,500	8	70.4	+2.2	96	3	41	16	46	0.07	-0.45	0.07	0.0	1	22	9	0		James Jeffs.	
Dorset	Millard	4,541	13																	S. W. Western.	
Emery	Emery	6,260	7	67.5	+4.0	99	9	35	20	46	1.06	+0.92	0.70	0.0	2	1	8	22	SW.	H. C. Wickman.	
Fillmore	Millard	5,100	17	76.1	+1.1	102	23	44	16	47	0.97	+0.45	0.75	0.0	4					J. J. Starley.	
Garrison—T1	Millard		4	72.4		95	*2	40	17	50	0.21		0.21	0.0	1	20	6	4	S.	E. M. Smith.	
Governor's Creek	Tooele	5,277	7	72.6	+0.5	95	*3	43	15	41	1.11	+0.84	0.98	0.0	5	19	8	4	S.	Walter James.	
Grand Junction, Col.	Mesa	4,608	10	77.0	-2.4	95	5	55	16	36	0.62	+0.07	0.42	0.0	5	18	7	6	e.	Weather Bureau	
Green River	Emery	4,080	16																	J. D. Hitch.	
Juniper (near)—T6	Tooele	7,500		63.2		85	23	37	15	38	0.79		0.46	0.0	3	15	7	4	S.	Mrs. J. S. Lawton.	
Juab	Juab	5,010	17	70.6	-1.0	92	*3	42	16	42	0.43	-0.18	0.14	0.0	4	19	8	4	SW.	William Brown.	
Manti	Sanpete	5,575	13	67.4	-3.5	94	22	42	16	44	1.00	+0.50	0.54	0.0	4	0	29	2		W. M. Harmon.	
Mt. Nebo	Utah	4,050	6	76.6	+3.5	99	23	53	14	39	0.25	-0.01	0.25	0.0	1	15	16	0	n.	D. C. Walker.	
Mt. Pleasant	Sanpete	5,859	15																	Web Greene.	
Nephi	Juab		2								0.98		0.74	0.0	6	17	14	0	SW.	A. Madsen.	
Oak City—T2	Millard		2	75.6		98	31	45	*15	45	1.04		0.72	0.0	2	21	3	5		J. Finlinson.	
Payson	Utah	4,637	2								T.		T.	0.0	0	15	16	0	SW.	D. L. Coombs.	
Provo	Utah	4,532	15	72.6	-0.2	97	23	45	16	45	0.30	+0.07	0.30	0.0	1	11	9	11	SW.	W. K. Henry.	
Richfield	Sevier	5,350	17	72.3	+1.5	102	3	45	*1	50	1.14	+0.80	0.50	0.0	5	20	10	1	SW.	S. Christensen.	
Scipio	Millard	5,200	12	69.4	-0.9	93	30	35	16	50	0.67	+0.05	0.45	0.0	4	11	8	12	SW.	Thomas Memmott.	
Soldier Summit	Utah	7,474	15	60.4	-1.8	90	*6	33	17	55	0.57	-0.01	0.45	0.0	6	18	11	1		Agent Rio Grande R. R.	
Thistle	Utah	5,975	15								T.		T.	0.0	0	22	9	0	S.	Ag. Rio Grande W. R. R.	
Trout Creek	Juab		2	69.6		90	2	39	16	51				0.0	0	22	9	0		Mrs. W. A. Edwards.	
Utah Lake Pump Sta	Utah		2																	W. A. Knight.	
Wellington	Carbon	5,540	8																	Melville Branch.	
Averages				70.6	-0.7						0.60	+0.24		0.0	3	16	11	4	SW.		
SOUTHERN.																					
Aneth	San Juan	4,800	7	80.4	+2.0	104	20	45	17	54	0.49	+0.09	0.36	0.0	3	22	9	0	W.	Miss S. Hubert.	
Beaver	Beaver		2																	J. M. Foster.	
Cedar City	Iron		3																	Mrs. E. Clayton.	
Coyote	Garfield		0																	Geo. H. Barney.	
Escalante	Garfield	5,700	7	69.6		93	23	42	18	45	0.58		0.48	0.0	2	25	0	6		Joseph T. Atkin.	
Expos. Farm	Washington		3	79.8		103	*2	48	17	48						10	17	4		Prof. Albert Warren.	
Frisco	Beaver	7,318	13																	Joseph A. Lyman.	
Grayson	San Juan		2	72.3		95	8	48	16	40	1.05		1.05	0.0	1	17	8	6	S.	F. W. Gibbons.	
Hite	Garfield	3,000	8	83.2	-1.3	106	5	57	17	44	1.21	+0.99	1.12	0.0	2	21	9	1	S.	E. M. Ford.	
Kanab—T5	Kane	4,925	7	68.0		95	3	40	*16	50	T.		0.00	0.0	0	9	17	0		Mrs. G. W. Carpenter.	
La Sal	San Juan	7,000	7																	Michael Hansen.	
Loa	Wayne	7,000	15	64.7	-1.4	86	*3	37	*18	47	0.65	-0.27	0.30	0.0	3					John W. Henry.	
Marysville (near)	Piute	6,180	8	66.7	-0.1	90	*2	40	*16	47	0.57	-0.25	0.24	0.0	8	9	12	10	SW.	L. Manners.	
Mitford																				Geo. Roberts, Sr.	
Minersville	Beaver	5,070	10								0.28	-0.33	0.15	0.0	3					Henry Crouse.	
Moab	Grand	4,300	18	76.2	-1.3	100	*4	36	*17	46	0.81	+0.28	0.58	0.0	5	6	22	3		Weather Bureau.	
Modena	Iron	5,479	7	69.7	0	92	6	45	1	44	2.46	+2.15	2.17	0.0	3	12	13	0	SW.	James Connell.	
Parowan	Iron	5,970	10	69.4	-1.7	94	3	42	*16	47	0.34	-0.50	0.14	0.0	4	15	16	0	SW.	J. H. Harrison.	
Pinto—T2	Washington	5,967	10	61.7	-1.9	91	31	35	3	52	2.14	+1.40	1.63	0.0	3	23	0	7	S.	W. H. Schock.	
Plateau	Sevier	7,000	5	68.3	+1.4	90	22	33	16	51	1.70	+0.86									

TOTAL PRECIPITATION JULY 1967



SCALE OF SHADES -- IN INCHES



DAILY PRECIPITATION, JULY, 1907.

[illegible]

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

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DNH
REPORT FOR AUGUST, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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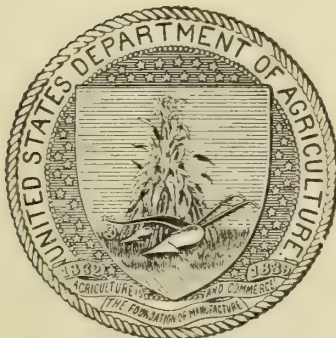
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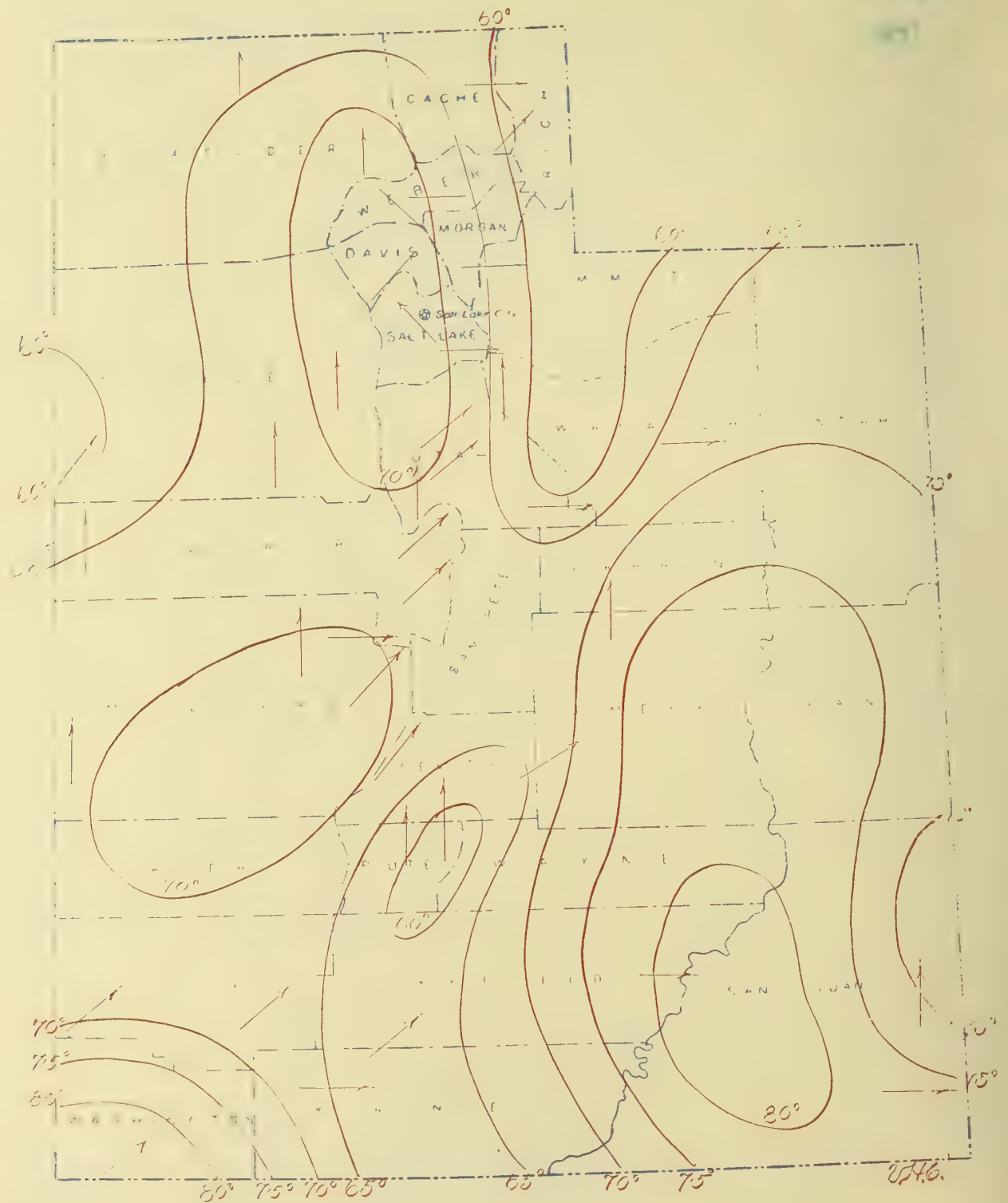
R. J. HYATT,

SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.

SEPTEMBER 27, 1907



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, AUGUST, 1907. No. 8

GENERAL SUMMARY.

Fair and cool weather prevailed during the month. The mean temperature for the State was below the seasonal average, and, with one exception, was the lowest during the past sixteen years. The deficiency was due mainly to cool nights, the temperatures during the daytime averaging about normal. Light to killing frosts occurred in a number of localities in the northern portion of the State during the second decade, being more or less general on the 11th. The temperature deficiency was uniformly distributed thruout the month, and thus was less noticeable than if having occurred within a shorter period. The temperatures averaged highest in the southeastern and southwestern portions of the State, and lowest in the central mountainous regions.

The monthly precipitation averaged much above the normal. Showers and thunderstorms were frequent during the month, and the rainfall was well distributed over the entire State, being relatively heaviest in the central mountainous districts. There was hail in a few localities, and some very light snows in the mountains of the northern part of the State. On the 3d, the northern half of the State was visited by a severe thunder and windstorm. The maximum velocity of the wind at Salt Lake City was 64 miles an hour. Considerable damage was done to small buildings, and to telephone and telegraph lines.

The sunshine for the month was somewhat below the normal, the greater part of the deficiency occurring during the latter half.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 50 stations, was 67.7° , which was 1.9° below the normal. The deficiency was general over the entire State, being greatest over the central, and least over the southern sections. The highest local monthly mean was 82.2° at St. George, and the lowest was 56.4° at Soldier Summit. The highest temperature recorded was 121° at Wellington on the 22d, and the lowest, 26° , at Lucin on the 11th and 12th, and at Woodruff on the 11th and 19th, giving a range for the section of 95° . Temperatures in excess of 90° were recorded at nearly all stations on one or more dates during the month. The greatest local monthly range was 89° at Woodruff, and the least was 35° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 1.56 inches, which was 0.85 inch above the normal for the State. The rainfall was quite evenly distributed over all portions of the State, the excess over the middle section being slightly greater than over the northern and southern sections. The greatest monthly amount was 3.94 inches at Torrey; the least, 0.05 inch at Garrison. The greatest precipitation in any 24 consecutive hours was 1.82 inches at Castle Dale. There was an average of 6 days with 0.01 inch or more of precipitation; 5 over the northern, 6 over the middle, and 7 over the southern section.

WIND.

The prevailing direction for the section was southwest. The total number of miles recorded at Salt Lake City was 4,865; at Modena, 8,655; at Grand Junction, Colo., 4,318; and at Pocatello, Idaho, 6,075. The maximum velocity at Salt Lake City was 64 miles per hour from the west on the 3d; at Modena, 44 miles from the southwest on the 9th; at Grand Junction, Colo., 31 miles from the southwest on the 14th; and at Pocatello, Idaho, 34 miles from the southwest on the 10th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 14; partly cloudy days, 11; cloudy days, 6. Determined from the records of automatic sunshine recorders, Salt Lake City had 69 per cent; Modena 83 per cent; Grand Junction, Colo., 67 per cent; and Pocatello, Idaho, 83 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 42 per cent, the lowest observed reading being 12 per cent on the 9th; at Modena, 44 per cent, the lowest observed reading being 8 per cent on the 11th; at Grand Junction, Colo., 46 per cent, the lowest observed reading being 11 per cent on the 10th; and at Pocatello, Idaho, 42 per cent, the lowest observed reading being 8 per cent on the 16th and 18th.

OBSERVERS' REMARKS.

Castle Rock—Thundershowers were frequent during the month, and some heavy rains occurred. Warm days and cool nights prevailed—David Moore.

Corinne—Clear and warm weather prevailed during the month—A. C. Murphy.

Deseret—The temperature for the month was somewhat below the normal, and there was a slight deficiency in the amount of precipitation. There was considerable high wind. The supply of water for irrigation purposes continued plentiful—S. W. Western.

Emery—The fore part of the month was hot and dry. During the latter part, the precipitation was much in excess of the normal amount, and cool nights prevailed—H. C. Wickman.

Government Creek—The weather during the month was very changeable—Walter James.

Heber—Pleasant weather prevailed thruout the month. A killing frost occurred on the morning of the 11th—John Crook.

Henefer—During the month considerable damage resulted from excessive precipitation and frosts—Wm. Brewer.

Hite—On the morning of the 21st there was an unusually well defined solar halo. There were frequent thundershowers during the month, and the amount of precipitation was above the normal—F. W. Gibbons.

Huntsville—The weather during the month was very changeable, with much cloudiness—Lars Petersen.

Ibapah (near)—Some snow fell in the mountains on the 21st—J. S. Lawton.

Levan—The weather during the month was very changeable and stormy. Snow fell in the mountains on the 30th—Wm. Brown.

Marion—There was an unusually high wind on the 3d, which blew down fences and did considerable damage to buildings. A killing frost occurred on the morning of the 11th—J. Woolstenhulme.

Marysvale—The temperature for the month was below the normal, while the precipitation was much above—John W. Henry.

Meadowville—The month was characterized by abnormally cool nights. A number of damaging frosts occurred—J. S. Moffat.

Mt. Nebo—The temperature for the month was below the normal, the nights being especially cool—D. C. Walkey.

Provo—There were frequent thunderstorms during the month. Snow fell in the mountains on the 30th—Wm. K. Henry.

Ranch—Favorable weather prevailed during the month—J. W. Seaman.

Richfield—The fore part of the month was generally very favorable. During the latter part the amount of rainfall was excessive, and considerable damage resulted therefrom—Simon Christensen.

Saltair—August was cool and windy. There were frequent thunderstorms—Earnest B. Sones.

Theodore—The amount of rainfall for the month was above the normal. The cloudiness was pronounced, there being only four clear days—M. M. Smith.

MISCELLANEOUS PHENOMENA.

Halo, solar—Hite, 21.

Halo, lunar—Tropic, 18, 20.

Frost, heavy—Woodruff, 10.

Aurora—Provo, 3; Theodore, 13.

Frost, light—Henefer, 11, 16; Huntsville, 16; Silver Lake, 11; Snowville, 18; Woodruff, 16.

Frost, killing—Alpine, 4; Heber, 11; Huntsville, 11; Marion, 11; Meadowville, 11, 19, 20; Randolph, 11, 12, 15; Woodruff, 11.

Hail—Alpine, 30; Deseret, 28; Government Creek, 24; Marysville, 14, 17, 20; Meadowville, 3, 25; Modena, 15; Nephi (near), 21; Sunnyside, 2, 25, 27, 30; Theodore, 14; Tropic, 21, 22, 31; Trout Creek, 2.

High wind—Aneth, 1, 3, 21; Deseret, 2, 6–10, 17, 21, 23, 26, 27; Garrison, 8, 9, 17; Government Creek, 8, 9, 14, 21, 23; Heber, 9, 21; Henefer, 3, 10; Lucin, 22, 25; Marion, 3, 6, 8, 9; Meadowville, 3, 9, 17, 18, 21, 25; Modena, 2, 3, 6–9, 12, 15, 17–19, 21, 22, 24–31; Mt. Nebo, 7–10, 21, 22; Nephi (near), 7–9, 26; Randolph, 5–9, 16, 18; Salt Lake City, 2, 3, 7, 9, 10, 17, 21, 24, 25; Theodore, 10, 17, 21; Tropic, 26, 27.

Thunderstorms—Castle Rock, 3, 17, 24, 29; Deseret, 2, 28; Farmington, 2, 3, 21, 24; Ft. Duchesne, 14, 25; Government Creek, 2, 3, 6, 17, 21, 24, 28; Heber, 3, 24, 25, 28; Henefer, 2, 3, 6, 8, 13, 14, 17, 21, 25, 29; Hite, 2, 15, 19, 20, 25, 26, 31; Huntsville, 3, 6, 17; Ibapah (near), 3, 21, 23; Levan, 2, 5, 13, 14, 17, 21, 23, 24; Logan, 25, 30, 31; Lucin, 1, 2, 17, 24–27; Marion, 1–3, 17, 21, 24–27; Marysville, 1–3, 6, 13–18, 20–24, 29; Meadowville, 3, 24, 25; Minersville, 1, 2, 12–14, 17, 18, 21–24; Moab, 1, 6, 14, 19–21, 24–27, 29, 31; Modena, 1, 2, 15–20, 23, 24; Mt. Nebo, 2, 3, 24; Nephi, 2, 3, 17, 24; Nephi (near), 2, 6, 14, 17, 21, 28; Ogden, 17; Parowan, 20–23; Plateau, 2, 6, 23, 25; Ranch, 1–3, 14, 17, 29; Randolph, 1, 3, 4, 22, 24, 25; Richfield, 14, 20–25; St. George, 18, 21, 29; Saltair, 6, 14, 17, 21, 24; Salt Lake City, 2, 3, 6, 13, 14, 17, 21, 24, 28; Scipio, 2, 3, 28; Silver Lake, 3, 17, 24, 28; Snowville, 2, 3, 7, 17, 24, 27, 31; Sunnyside, 2, 15; Theodore, 2, 3, 13, 14, 17, 18, 20, 21, 24, 25; Tooele, 2, 3, 21, 24; Tropic, 1–3, 6, 14–17, 19–24, 29–31.

COMPARATIVE STATE DATA FOR AUGUST.

Year.	Temperature.			Average Precipitation.
	Mean.	Highest.	Lowest.	
1892	70.6	113	23	0.27
1893	68.1	112	25	0.23
1894	69.5	107	25	0.81
1895	70.6	110	29	0.35
1896	69.7	107	33	1.04
1897	69.4	111	35	0.40
1898	73.5	110	35	0.60
1899	65.7	102	21	0.95
1900	68.5	109	26	0.34
1901	72.3	111	31	1.63
1902	69.4	110	23	0.51
1903	71.8	110	27	0.38
1904	69.4	104	22	1.06
1905	71.4	110	26	0.71
1906	68.9	105	29	2.69
1907	67.7	121	26	1.50

MEAN TEMPERATURE AND TOTAL PRECIPITATION AT CORINNE, BOXELDER COUNTY, UTAH.

TEMPERATURE.

Year.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
1890	20.0	30.6	39.4	53.5	66.2	70.5	84.7	76.7	67.0	46.9	35.6	30.6	
1891	26.3	26.9	37.9	51.6	64.6	66.8	75.9	78.6	65.3	48.6	41.0	25.0	
1892	21.9	27.4	41.9	48.5	58.4	68.2	76.9	75.9	69.2	52.1	38.0	28.2	
1893	24.0	26.8	38.6	48.6	57.0	76.1	81.2	78.4	68.0	54.1	38.0	31.6	
1894	27.4	22.2	36.6	57.5	70.7	74.5	84.2	82.6	64.5	50.7	35.9	26.9	
1895	24.2	26.8	41.5	59.2	67.5	75.5	84.8	68.7	55.5	32.2	24.6		
1896	29.1	36.3	43.1	51.0	60.9	83.8	81.8	78.4	66.7	58.4	37.5	31.3	
1897	28.1	30.6	30.7	47.4	63.2	63.8	69.7	76.7	64.4	48.0	38.5	24.8	
1898	15.2	29.4	31.2	52.8	54.2	66.4	76.2	77.5	63.4	49.8	34.5	20.8	
1899	30.8	28.0	37.2	46.3	53.8	63.8	73.8	68.0	66.2	49.2	46.4	26.8	
1900	34.7	33.4	47.9	48.0	59.8	72.8	73.9	72.0	61.3	50.0	41.6	32.9	
1901	31.4	32.0	39.4	48.0	64.4	64.4	80.0	76.5	60.5	55.2	43.3	30.5	
1902	27.3	35.2	36.8	48.7	58.4	68.4	71.5	72.6	60.8	52.6	39.8	30.9	
1903	28.0	35.7	39.5	47.4	55.0	70.8	72.0	75.2	60.0	50.6	37.7	25.4	
1904	19.6	31.0	35.3	51.0	57.6	64.6	75.6	77.7	64.2	52.6	39.8	31.2	
1905	29.6	33.4	44.0	51.4	54.6	66.6	77.1	75.1	63.8	45.6	39.6	22.2	
1906	22.4	29.7	39.1	50.2	56.2	62.6	73.6	70.8	61.8	50.8	38.8	34.8	
M'n	25.9	29.1	39.2	50.7	60.1	69.4	77.4	75.8	64.5	51.2	38.8	28.2	

PRECIPITATION.

Year.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
1890	4.00	1.55	1.70	1.15	1.10	0	0.05	0.20	0.10	0.60	0	0.90	
1891	1.45	1.90	2.15	1.90	1.30	3.07	0.30	0.10	1.95	0.02	0.05	3.60	
1892	0.90	1.25	1.65	0.45	2.25	2.35	1.35	0.05	2.00	0.82	1.65	2.30	
1893	0.83	1.50	3.38	1.01	1.20	0.10	0	0	1.20	0.30	1.24	1.25	
1894	1.15	1.90	1.85	0.61	0.42	0.30	0	0.10	1.58	0.36	0.15	1.34	
1895	1.30	0.30	1.60	0.25	1.60	0.45	0.12	0	0.48	T.	.....	0.70	
1896	1.10	0.15	1.42	0.81	1.81	0.12	1.38	0.15	0.49	0.48	1.19	0.90	
1897	1.70	1.78	2.66	0.34	0.17	0.15	0.58	T.	1.30	1.49	0.67	0.29	
1898	1.90	0.15	0.85	0.47	2.15	0.56	T.	0.13	0.26	0.35	1.03	0.65	
1899	2.25	0.80	1.30	0.12	0.86	0.21	0.93	1.10	0	1.85	0.85	0.60	
1900	0.66	0.95	T.	3.54	1.35	0.20	0.15	0.40	1.01	1.97	1.87	0.03	
1901	1.08	2.20	0.61	0.30	1.88	0.30	0	3.75	0.80	2.81	0.28	1.15	
1902	0.98	2.44	1.11	1.54	1.45	T.	1.00	0.36	T.	0.61	1.64	1.97	
1903	3.62	0.10	1.06	1.11	3.01	0.15	0.08	0.11	0.47	1.63	2.03	0.90	
1904	1.00	2.14	4.15	0.59	0.91	0.49	0.42	0.46	0.80	0.80	0	1.00	
1905	0.35	0.60	2.02	1.62	2.85	0.10	0	1.11	1.09	0.22	0.74	1.00	
1906	2.10	0.70	3.32	2.83	3.35	1.24	0.10	3.85	0.67	0.35	0.82	3.02	
M'n	1.52	1.20	1.81	1.10	1.63	0.58	0.38	0.70	0.73	0.86	0.85	1.27	

LATE REPORTS.

JUNE.

Grantsville—Total precipitation, 1.35 inches.

Verdure—Total precipitation, 0.11; greatest in 24 hours, 0.06 inch; number of rainy days, 2.

Ogden No. 2—Mean temperature, 65.1°; departure from the normal, −6.8°. Total precipitation, 2.87 inches; departure from the normal, +2.32 inches; greatest in 24 hours, 0.75 inch; number of rainy days, 9; clear, 12; partly cloudy, 6; cloudy, 1; prevailing wind direction, southeast.

Coyoto—Mean temperature, 62.6°; departure from the normal, +4.9°; highest, 89° on the 27th; lowest, 37° on the 14th; greatest daily range, 35°. Total precipitation, 0.00 inch; departure from the normal, −0.69 inch.

JULY.

Verdure—Total precipitation, 0.60 inch; greatest in 24 hours, 0.33 inch; number of rainy days, 2.

Ogden No. 2—Mean temperature, 82.2°; departure from the normal, +3.0°. Total precipitation, T.; departure from the normal, −0.23 inch; greatest in 24 hours, T.; number of clear days, 25; partly cloudy, 2; cloudy, 4; prevailing wind direction, southeast.

Deseret—Mean temperature, 72.3°; departure from the normal, +0.6; highest, 95° on the 22d and other dates; lowest, 43° on the 16th; greatest daily range, 44°. Total precipitation, 0.0 inch; departure from the normal, −0.06 inch; greatest in 24 hours, 0.04 inch; number of rainy days, 1; clear, 19; partly cloudy, 7; cloudy, 5; prevailing wind direction, south.

WATER STAGES.

The level of Great Salt Lake on August 1st was 3.5 feet above zero; on August 15th, 3.4 feet above, and on September 1st, 3.4 feet above.

CLIMATOLOGICAL DATA, AUGUST, 1907.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.		Number cloudy days.	Prevailing direction of wind.
NORTHERN.																			
Alpine	Utah	4,900	11								2.80	+1.82	1.75	0.0	6				T. B. Whitby.
Arvin	Boxelder	4,240	37	71.9	+0.4	105	21	43	16	54	1.31	+0.87	0.80	0.0	4	20	10	1	Agent So. Pacific R. R.
Barstow	Davis	4,267	7	67.0	-4.7	92	6	40	18	46	1.53	+1.07	0.61	0.0	4	24	6	1	Charles Boylin.
Bear	Uta	5,000	19	67.4	-2.3	96	9	40	*11	51	0.80	+0.16	0.40	0.0	3	19	8	4	Post Surgeon.
Bear	Wasatch	5,606	14	*63.0	-1.9	*90	13	*30	11	53	0.87	+0.09	0.20	0.0	6	16	12	2	John Crook.
Bear	Summit	5,301	2	62.4	-1.9	91	6	28	11	56	2.43	+1.56	0.92	0.0	13	14	13	4	William Brewer.
Bear	Weber	5,100	12								1.17	+0.56	0.52	0.0	5	13	17	1	Lars Petersen.
Bear	Boxelder	4,230	29								0.90	+0.38	0.40	0.0	6				Agent So. Pacific Co.
Bear	Boxelder	4,507	16	67.8	-3.1	89	2	42	11	36	0.90	+0.38	0.40	0.0	6				Agricultural College.
Bear	Boxelder	4,507	16	62.2		96	3	26	*11	61	0.49	+0.20	0.20	0.0	5	10	13	8	C. J. Burke.
Bear	Rich	6,200	8	60.4	-4.5	86	17	31	11	45	1.20	+0.56	0.60	0.0	3	25	3	3	J. S. Moffat.
Bear	Cache	4,848	12								1.46	+0.79	0.47	0.0	5				Fred Yeates.
Bear	Morgan	5,680	4																T. R. G. Welch.
Bear	Weber	4,310	6	*69.4	-3.6	*90	*6	*45	19	33	1.01	+0.41	0.73	0.0	3	21	9	0	Enoch Farr.
Bear	Weber	4,310	37	79.1	+2.3						0.52	+0.05	0.52	0.0	1	16	5	10	W. H. Chevers.
Bear	Summit	7,800	10	61.0	-2.0	85	7	30	12	51	1.80	+1.02	0.46	0.0	9	13	14	1	J. M. Martin.
Bear	Bannock	4,483	7	66.3	-4.2	91	13	41	19	41	1.65	+1.09	0.89	0.0	9	20	11	0	Weather Bureau.
Bear	Rich		2								0.83		0.37	0.0	4	18	7	6	Wm. Rex.
Bear	Salt Lake		3	69.8		85	*8	50	11	28	1.81		0.56	0.0	5				Ernest B. Sones.
Bear	Salt Lake	4,366	33	71.0	-4.5	93	7	46	11	32	1.69	+0.91	0.65	0.0	7	13	15	3	Section Center.
Bear	Salt Lake			57.9		82	*14	28	11	45	2.01		0.81	0.0	7	19	10	2	W.
Bear	Salt Lake			64.2	-3.6	91	2	31	18	56	1.92	+1.69	0.63	0.0	7	16	13	2	N. J. Ferheralf.
Bear	Boxelder	4,360	17																Joseph Robbins.
Bear	Wasatch		1																S. A. Chivens.
Bear	Wasatch	5,507	1	66.8		90	*8	41	31	46	1.27		0.55	0.0	6	4	15	12	M. M. Smith.
Bear	Tooele	4,900	11	70.0	-3.6	93	17	47	29	35	1.43	+0.85	0.40	0.0	5	23	4	4	I. J. Elkington.
Bear	Uta		12																Joab Collier.
Bear	Rich	6,500	10	60.4	0	115	2	26	*11	74	1.26	+0.80	0.74	0.0	2				C. G. Youngberg.
Bear	Averages.			66.4	-1.8						1.36	+0.77		0.0	5	17	10	4	W.
MIDDLE.																			
Black Rock	Millard	4,872	7																Willard Burbank.
Black Rock	Emery	5,500	8	67.2	-0.4	91	8	43	31	43	2.91	+2.19	1.82	0.0	10	9	22	0	James Jeffs.
Black Rock	Millard	4,541	13	69.0	-2.3	92	*13	38	11	50	0.29	-0.20	0.20	0.0	3	16	7	8	S. W. Western.
Black Rock	Emery	6,260	7	67.0	-1.8	90	*4	41	*15	42	1.91	+1.16	1.20	0.0	3	1	9	21	H. C. Wickman.
Black Rock	Millard	5,100	17	72.2	-2.5	97	8	40	11	50	1.23	+0.47	0.38	0.0	6				J. J. Starley.
Black Rock	Millard		4	*69.1		*92	*7	*34	27	49	0.05	+0.05	0.0	1	22	4	3		E. M. Smith.
Black Rock	Tooele	5,277	7	69.2	-3.6	92	7	39	11	43	1.17	-0.07	0.52	0.0	7	16	12	3	Walter James.
Black Rock	Mesa	4,668	10	73.9	-2.2	96	9	54	30	33	1.62	+0.47	0.74	0.0	13	15	10	6	Weather Bureau.
Black Rock	Emery	4,080	16																J. D. Hitch.
Black Rock	Tooele	7,500		60.2		82	*8	33	29	43	1.09		0.61	0.0	4	16	13	2	Mrs. J. S. Lawton.
Black Rock	Juab	5,010	17	67.0	-3.3	91	8	40	11	42	3.57	+2.81	1.71	0.0	8	11	11	9	William Brown.
Black Rock	Sanpete	5,575	13																W. M. Harmon.
Black Rock	Utah	4,650	6	71.3	-2.8	95	8	42	11	40	0.80	+0.55	0.27	0.0	7	17	13	1	D. C. Walkey.
Black Rock	Sanpete	5,859	15																Web Greene.
Black Rock	Juab		2								1.98		0.75	0.0	8	19	10	2	A. Madsen.
Black Rock	Millard		2	71.5		95	8	41	28	42	1.15		0.52	0.0	6	19	9	3	J. Finlinson.
Black Rock	Utah	4,637									0.84		0.39	0.0	3	6	20	5	D. L. Coombs.
Black Rock	Utah	4,532	15	70.1	-0.6	94	1	40	10	45	1.95	+1.66	0.50	0.0	6	4	16	11	W. K. Henry.
Black Rock	Sevier	5,350	17	69.4	-2.0	95	*15	40	10	46	0.86	+0.24	0.35	0.0	6	20	7	4	S. Christensen.
Black Rock	Millard	5,260	12	66.4	-2.8	88	*8	34	9	51	2.17	+1.32	0.55	0.0	9	8	7	16	Thomas Memmott.
Black Rock	Utah	7,474	15	55.4	-3.8	82	7	30	30	45	0.85	+0.20	0.40	0.0	6	0	31	0	Agent Rio Grande R. R.
Black Rock	Utah	5,075	15																Agt. Rio Grande W. R. R.
Black Rock	Juab		2	67.2		93	*2	34	11	50	1.56		1.20	0.0	3	12	19	0	Mrs. W. A. Edwards.
Black Rock	Utah		8																W. A. Knight.
Black Rock	Carbon	5,540	2	75.4	+6.5	*121	22	*33	9	80				0.0					Melville Branch.
Black Rock	Averages.			68.0	-2.5						1.48	+0.93		0.0	6	12	13	6	SW.
SOUTHERN.																			
Bear	San Juan	4,800	7	77.6	+0.3	101	8	51	29	42	2.39	+1.83	0.68	0.0	7	18	5	6	W.
Bear	Beaver		2																Miss S. Hubert.
Bear	Iron		3																J. M. Foster.
Bear	Garfield		6	59.0	-2.2	187	6	*30	30	44	2.15	+1.31	0.50	0.0	7	10	0	15	Mrs. E. Clayton.
Bear	Garfield	5,700	7	66.6		90	16	40	29	44	1.53		0.50	0.0	7	15	0	16	Geo. H. Barney.
Bear	Washington		3																Joseph T. Atkin.
Bear	Beaver	7,318	13																Prof. Albert Warren.
Bear	San Juan		2	68.7		*90	*6	*45	29	36	3.28		0.86	0.0	9	12	4	14	Joseph A. Lyman.
Bear	Garfield	3,000	8	80.2	-2.1	102	*16	55	1	42	1.31	+0.88	0.63	0.0	6	15	11	5	F. W. Gibbons.
Bear	Kane	4,925	7																E. M. Ford.
Bear	San Juan	7,000	7																Mrs. G. W. Carpenter.
Bear	Wayne	7,000	15	59.0	-4.4	84	8	38	*11	42	1.80	+0.56	0.40	0.0	7				Michael Hansen.
Bear	Piute	6,180	8	64.4	-2.2	88	8	37	11	48	3.90	+2.40	1.15	0.0	17	7	7	17	John W. Henry.
Bear	Beaver	5,070	10								1.66	+0.86	0.41	0.0	9				L. Manners.
Bear	Grand	4,000	18	74.7	-0.5	99	8	49	11	44	1.73	+1.11	0.58	0.0	12	3	24	4	Geo. Roberts, Sr.
Bear	Iron	5,479	7	67.3	-1.4	88	8	41	31	39	0.77	+0.38	0.42	0.0	4	10	14	7	Henry Crouse.
Bear	Iron	5,970	16	67.4	-2.5	90	*8	40	30	42	0.65	+0.69	0.31	0.0	8	12	17	2	Weather Bureau.
Bear	Washington	5,907	10																James Connell.
Bear	Sevier	7,000	5	62.1	-1.8	85	8	31	*11	50	1.96	+1.18	0.52	0.0	11	9	18	4	J. H. Harrison.
Bear	Kane	6,700	6	60.6	-2.6	84	*15	35	26	42	0.77	-0.72	0.33	0.0	5	11	17	3	W. H. Schock.
Bear	Kane		7	79.4		100	*8	53	29	40	1.46		1.02	0.0	3				J. W. Seaman.
Bear	Washington	2,880	21	82.2	+1.6	108	18	53	30	41	0.50	-0.21	0.23	0.0	4	31	0	0	Wm. Flaigan.
Bear	Washington		7	69.6		*97	5	46	9	37	3.94		0.90	0.0	11	2	0	21	J. G. Bleak.
Bear	Garfield	7,000																	

All records are used in determining State (or district) means, but the departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

Letters of alphabet indicate the number of days missing from the record: a, 1; b, 2, etc.

* Also on subsequent dates.

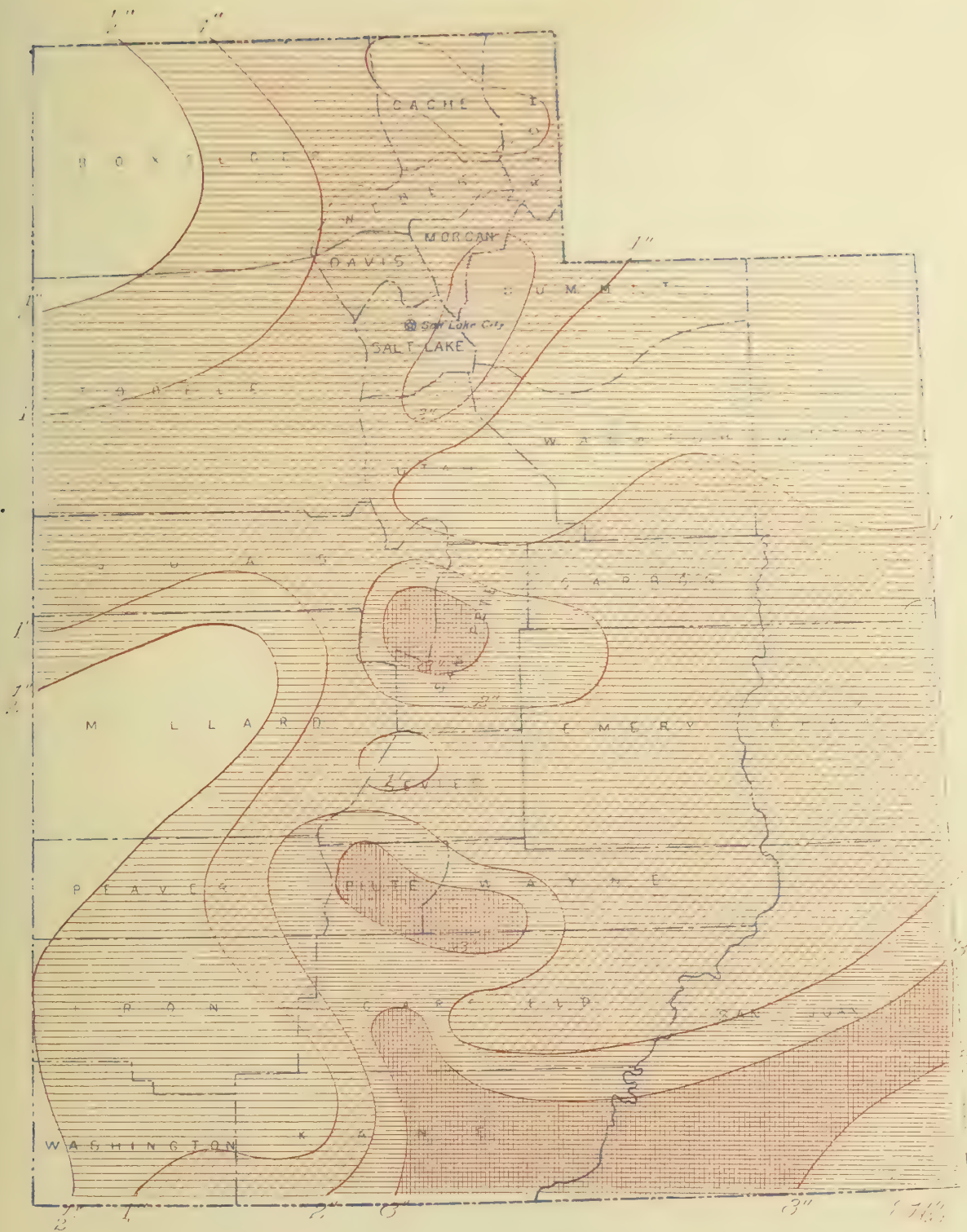
† Temperature data from

MAXIMUM AND MINIMUM TEMPERATURES, AUGUST, 1907.

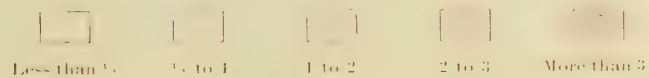
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* Indicates 100; †, 101, etc.

TOTAL PRECIPITATION, AUGUST, 1907



SCALE OF SHADES IN INCHES



Day of month.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

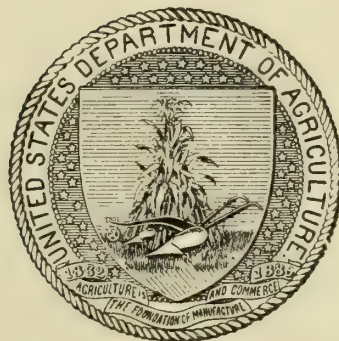
WILLIS L. MOORE,

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BY

R. J. HYATT,

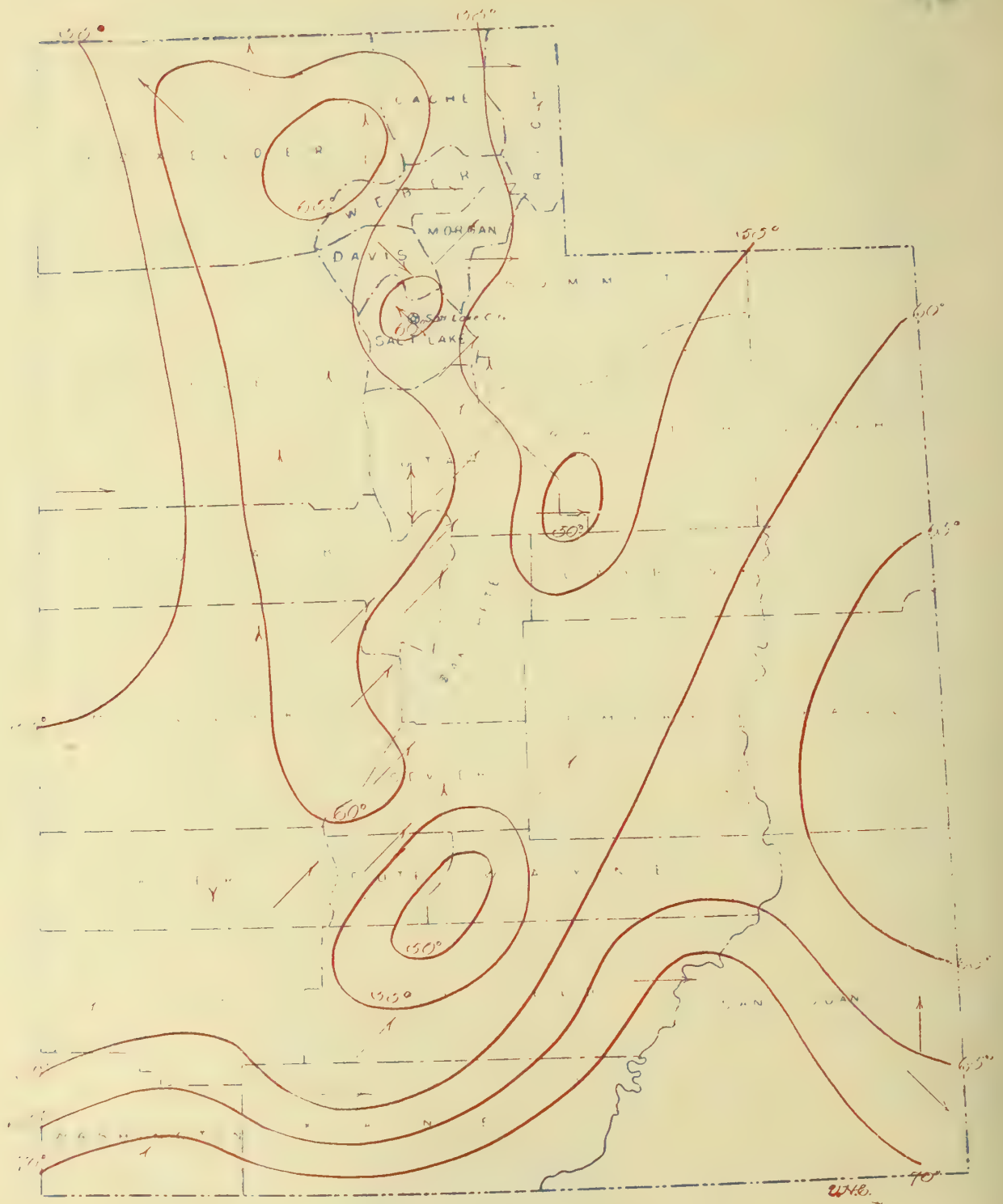
SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.

OCTOBER 23, 1907

MEAN TEMPERATURES AND PREVAILING WINDS, SEPTEMBER, 1907



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

X. SALT LAKE CITY, UTAH, SEPTEMBER, 1907. No. 9

GENERAL SUMMARY.

The mean temperature for the State was practically normal for the month. The greatest departure was over the northern section, which was only 0.5° below the normal for that section. No unusual temperature conditions occurred during the month. The warmest period was from the 10th to the 13th, when temperatures of 80° or above were recorded at nearly all stations, and above at a few places. A cool period prevailed from the 14th to the 23d, during which time heavy frosts were general at nearly all localities, and killing frosts or freezing temperatures occurred at numerous points where favorable to such conditions. Clear weather also prevailed during the last two days of the month. The precipitation, though much below the normal, was well distributed over the State. The rainfall was lightest over the northern section and heaviest over the central section. Precipitation considerably in excess of the normal occurred over a part of Rich County, situated in the extreme northern portion of the State. Thunderstorms occurred in many localities on the 4th and 5th, and on the 26th to the 29th. Hail fell at a few places, and considerable snow fell on the higher mountain peaks during the month. The winds were generally light for the month, but high winds were reported from some localities. A wind of sufficient velocity to overturn haystacks and cause other slight damage occurred at Panguitch on the 13th, and a velocity of 56 miles per hour was recorded at Modena on the 28th. The amount of sunshine during the month was nearly normal.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 50 stations, was 59.4° , which was 0.3° below the normal. The highest local monthly mean was 72.9° at Hite, and the lowest was 49.4° at Soldier Summit. The highest temperature recorded was 111° at Woodruff on the 4th, and the lowest 17° at Panguitch on the 19th, giving a range for the section of 94° . The local monthly range was 92° at Woodruff, and the least at Logan.

PRECIPITATION.

The average precipitation, determined from the reports of 63 stations, was 0.44 inch, which was 0.41 inch below the normal for the State. The greatest monthly amount was 2.59 inches at Woodruff, and no precipitation was recorded at Thistle or Rock. The greatest amount of precipitation in any 24 consecutive hours was 1.80 inches at Woodruff on the 29th. There was an average of 2 days with 0.01 inch or more of precipitation over the northern, 2 over the middle, and 2 over the southern section.

WIND.

The prevailing direction for the section was southwest. The total number of miles recorded at Salt Lake City was 4,345; at Modena, 7,735; at Grand Junction, Colo., 4,119; and at Pocatello, Idaho, 5,279. The maximum velocity at Salt Lake City was 29 miles per hour from the south on the 28th; at Modena, 56 miles from the southwest on the 28th; at Grand Junction, Colo., 29 miles from the southeast on the 29th; and at Pocatello, Idaho, 30 miles from the southwest on the 12th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 18; partly cloudy days, 8; cloudy days, 4. Determined from the records of automatic sunshine recorders, Salt Lake City had 73 per cent; Modena 84 per cent; Grand Junction, Colo., 78 per cent; and Pocatello, Idaho, 85 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 40 per cent, the lowest observed reading being 13 per cent on the 28th; at Modena, 34 per cent, the lowest observed reading being 6 per cent on the 13th; at Grand Junction, Colo., 39 per cent, the lowest observed reading being 8 per cent on the 28th; and at Pocatello, Idaho, 46 per cent, the lowest observed reading being 12 per cent on the 23d.

OBSERVERS' REMARKS.

Alpine—The weather during the month was dry, cold, and cloudy.—T. B. Whitby.

Castle Rock—Warm days and cold nights prevailed during the month. Some heavy frosts occurred.—David Moore.

Corinne—Generally clear weather prevailed during the month, with only a trace of rain, which occurred on the 26th.—A. C. Murphy.

Emery—The fore part of the month was warm, with a heavy rain on the 4th; the latter part was windy and frosty.—H. C. Wickman.

Heber—The month was very dry, with cold mornings but warm days. The only precipitation was a trace on two dates. Some snow fell on the high peaks on the 30th.—John Crook.

Henefer—September has been a dry and frosty month.—Wm. Brewer.

Huntsville—The weather during the month was fair. On the 14th, the first killing frost occurred. The latter part of the month was quite cold.—Lars Petersen.

Levan—The weather during the past month has been ideal.—Wm. Brown.

Marysvale (near)—The mean temperature for the month was slightly below, and the precipitation much below the normal.—John W. Henry.

Meadowville—The days have been warm, but the nights were very cold during the past month.—J. S. Moffat.

Minersville—Some cloudy weather prevailed at times during the month, but the only rain was a light shower on the 3d.—George Roberts.

Mt. Nebo—The weather during the month was generally cool, with some light frost.—D. C. Walkey.

Parowan—The weather of the month has been dry and windy, with but very little rain.—Alexander Matheson.

Provo—Several thunderstorms occurred during the month. A trace of snow fell on the 19th and 30th.—Wm. K. Henry.

Randolph—A high wind occurred on the 13th, which was sufficient to overturn haystacks and fences, and cause other slight damage.—William Rex.

Richfield—During the first part of the month, the days were warm and the nights cool; during the latter part, lower temper-

atures, with frosty nights, prevailed. A heavy snowfall occurred on the mountains, and some rain in the valley on the 29th and 30th—Simon Christensen.

Theodore—The month was very dry, with abundant sunshine and very little wind. No killing frost occurred. On the 14th, the daily range of temperature was 47°, which was the greatest of any day since the station was established—M. M. Smith.

Tropic—Fine weather prevailed during the entire month—Edward P. Bolton.

MISCELLANEOUS PHENOMENA.

Sleet—Henefer, 19.

Aurora—Nephi (near), 11.

Fog—Ibapah (near), 4, 29, 30.

Corona, lunar—Marysville (near), 12.

Halo, lunar—Marysville (near), 24; Salt Lake City, 28.

Frosts, heavy—Castle Rock, 19, 22; Emery, 18; Modena, 20; Nephi, 19; Provo, 19, 20; Salt Lake City, 20–22; Silver Lake, 19, 20, 26–28.

Hail—Henefer, 4; Huntsville, 25; Ibapah (near), 26, 28; Marysville (near), 4; Morgan, 26; Sunnyside, 26; Tropic, 29; Wellington, 26.

Frosts, light—Corinne, 20; Government Creek, 19; Modena, 19, 30; Mt. Nebo, 19–21; Nephi, 18; Payson, 19; Richfield, 29, 30; Salt Lake City, 14, 18, 19; Silver Lake, 13, 15, 21–23; Soldier Summit, 7–10, 18–26, 29, 30; Theodore, 14, 20.

Frosts, killing—Beaver, 19, 20; Cedar City, 19; Coyote, 18; Heber, 19; Henefer, 14; Huntsville, 14, 20, 21; Marysville (near), 19–23; Meadowville, 14, 18–20; Moab, 20, 23; Morgan, 18, 22–24, 28, 29; Nephi (near), 18, 20; Parowan, 18; Scipio, 19–23; Silver Lake, 29; Wellington, 17, 18.

High winds—Aneth, 26, 29; Cedar City, 13, 28; Government Creek, 15–18, 25, 28; Henefer, 28; Hite, 3; Huntsville, 11; Kelton, 12; Levan, 12, 13, 17; Lucin, 26, 29; Marysville (near), 13–15, 17, 18, 25, 28; Meadowville, 18; Modena, 1, 3, 4, 6, 11–18, 24, 25, 28; Mt. Nebo, 5, 12, 13, 18; Nephi, 25; Nephi (near), 12, 16–18; Provo, 28; Randolph, 13, 28; Richfield, 13, 16, 17; Scipio, 28; Sunnyside, 12; Thistle, 26; Tropic, 16, 28.

Thunderstorms—Cedar City, 1, 3, 4; Farmington, 4, 26, 29; Government Creek, 3, 4; Henefer, 26, 29; Hite, 25; Huntsville, 25; Kelton, 4, 26; Logan, 4, 29; Marysville (near), 3, 4; Meadowville, 4, 29; Milford, 4; Minersville, 3; Moab, 6, 13–15, 25; Modena, 3, 4; Morgan, 4, 26; Nephi, 26, 30; Parowan, 3, 4; Provo, 4, 12, 26, 29; Ranch, 4; Randolph, 15, 16, 29, 30; Richfield, 3; St. George, 5; Salt Lake City, 4, 5, 28; Scipio, 4; Sunnyside, 12, 26; Theodore, 26, 30.

COMPARATIVE STATE DATA FOR SEPTEMBER.

Year.	Temperature.			Average precipitation.
	Mean.	Highest.	Lowest.	
1891	60.7	104	28	1.89
1892	64.6	102	20	0.09
1893	58.0	99	12	0.84
1894	57.0	102	13	1.36
1895	60.8	103	9	0.60
1896	61.0	110	16	1.00
1897	62.2	100	25	1.64
1898	61.0	102	18	0.10
1899	65.3	103	22	0.05
1900	57.4	99	10	1.26
1901	59.3	100	11	0.21
1902	60.1	103	10	0.56
1903	58.5	103	16	0.90
1904	61.1	102	20	0.40
1905	60.7	104	12	2.10
1906	59.6	99	20	1.33
1907	59.3	111	17	0.44

WATER STAGES.

The level of Great Salt Lake on September 1st was 3.2 feet above zero; on September 15th, 3.0 feet above, and on October 1st, 2.9 feet above.

MEAN TEMPERATURE AND TOTAL PRECIPITATION AT MOAB, GRAND COUNTY, UTAH.

TEMPERATURE.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An
1890	30.7	38.8	45.4	46.5	58.8	71.5	82.7	74.6	65.3	49.4	39.8	35.4	
1891	27.9	35.9	43.5	55.8	67.7	73.3	77.1	72.8	65.5	50.4	40.5	28.0	
1892	25.7	40.1	47.0	54.3	62.6	71.6	76.4	72.6	64.2	51.2	38.2	31.1	
1893	26.8	33.9	44.4	54.6	64.3	74.5	78.2	71.8	63.5	51.2	36.8	34.2	
1894	28.0	32.6	48.0	55.4	66.2	72.0	80.4	77.2	63.1	54.8	42.6	34.7	
1895	31.2	32.2	47.0	57.2	64.2	68.6	74.7	77.4	66.4	52.4	38.5	26.5	
1896	33.6	36.8	46.0	56.0	64.8	75.2	79.7	75.0	66.0	53.6	39.4	30.2	
1897	30.1	32.3	42.0	56.0	67.7	72.1	73.9	72.8	67.6	52.4	41.0	21.6	
1898	22.4	28.6	44.8	59.5	61.6	72.0	77.8	77.8	66.3	53.2	42.1	26.0	
1899	28.2	35.6	49.2	56.8	63.6	73.4	80.2	74.0	69.4	53.2	44.6	26.6	
1900	34.6	38.6	51.1	53.6	66.0	73.8	78.2	74.2	64.0	56.6	44.2	33.0	
1901	31.0	40.4	44.6	56.4	66.6	70.6	76.6	77.0	65.8	57.4	44.2	33.2	
1902	31.8	37.1	42.8	56.9	63.9	73.8	74.4	75.6	65.3	56.3	43.7	28.7	
1903	27.0	24.2	45.0	54.4	61.8	71.3	76.0	77.3	64.4	53.4	42.4	28.4	
1904	26.4	43.6	48.8	57.2	64.2	70.9	77.4	77.0	68.0	53.1	38.8	31.4	
1905	28.8	34.6	48.6	55.8	60.0	73.0	76.0	75.5	68.0	51.1	43.9	27.8	
1906	29.7	41.0	46.6	53.6	62.7	68.4	76.4	75.4	66.0	52.8	42.4	38.0	
M'n	29.0	35.7	46.2	55.3	64.5	72.2	77.4	75.2	65.8	53.1	41.4	30.3	

PRECIPITATION.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An
1890	0.58	1.28	0.68	0.29	T.	T.	0.10	0.61	0.26	0.18	1.05	0.55	
1891	0.60	0.57	0.40	0.11	0.39	0.07	1.35	0.43	2.41	T.	0	0.82	
1892	1.20	0.71	1.41	0.60	0.93	T.	0.37	0.20	T.	0.41	0.37	0.41	
1893	0.72	0.34	0.53	0.34	0.76	T.	0.89	1.11	1.28	0.05	1.46	0.77	
1894	0.33	0.75	0.74	0.58	0.68	0.27	0.02	0.66	0.69	0.79	0	1.23	
1895	0.64	0.89	1.57	0.02	0.35	0.12	1.14	0.11	0.36	0.47	1.38	0.35	
1896	0.45	T.	0.18	0.11	0.17	0.03	0.66	0.51	5.97	0.83	0.30	0.32	
1897	1.22	2.12	2.23	0.72	0.38	0.14	0.80	0.60	1.46	2.52	0.48	1.05	
1898	0.77	0.13	0.44	0.25	1.58	0.16	0.17	0.35	0	T.	0.25	0.22	
1899	0.48	0.15	0.57	0.37	0.39	0.76	0.55	2.04	0.03	1.06	0.11	1.13	
1900	0.42	0.12	0.04	1.03	0.03	0.26	0.02	0.37	1.43	0.22	0.53	0	
1901	0.32	0.58	0.56	0.75	1.19	0.20	0.39	1.47	T.	1.41	0.02	0.28	
1902	0.40	0.49	0.91	0.40	0.84	0.43	0.30	0.53	1.26	T.	1.94	0.40	
1903	0.12	0.90	0.91	0.69	0.84	0.70	0.84	0.03	1.27	0.28	0	0.05	
1904	0.15	0.41	0.90	0.08	1.41	0.26	0.37	0.97	0.25	0.63	0	0.29	
1905	1.90	1.35	1.51	0.66	2.28	0	0.53	0.15	1.95	0.12	1.55	0.11	
1906	0.57	0.71	1.88	1.72	1.79	T.	0.77	0.58	2.08	0.23	1.75	1.57	
M'n	0.64	0.65	0.91	0.51	0.82	0.20	0.53	0.63	1.22	0.54	0.66	0.60	

LATE REPORTS.

JUNE.

Cedar City—Mean temperature, 64.6°; highest, 88° on the 30th; lowest, 42° on the 12th and 13th; greatest daily range, 36°; total precipitation, 0.34 inch; greatest in 24 hours, 0.21 inch; number of rainy days, 3.

JULY.

Cedar City—Mean temperature, 74.2°; highest, 92° on the 20th; lowest, 54° on the 17th; greatest daily range, 34°; total precipitation, 1.16 inches; greatest in 24 hours, 0.90 inch; number of rainy days, 2.

AUGUST.

Cedar City—Mean temperature, 69.9°; highest, 98° on the 19th; lowest, 37° on the 29th; greatest daily range, 37°; total precipitation, 2.43 inches; greatest in 24 hours, 1.60 inches; number of rainy days, 5.

Experiment Farm—Mean temperature, 79.0°; highest, 100° on the 8th and 15th; lowest, 52° on the 10th and other dates; greatest daily range, 44°; number of clear days, 10; partly cloudy, 12; cloudy, 9.

Verdure—Total precipitation, 1.98 inches; greatest in 24 hours, 0.55 inch; number of rainy days, 9.

ERRATA.

JUNE.

Page 48: Logan—Precipitation on the 12th trace, should be 0.10.

JULY.

Page 53: Castle Dale—Mean temperature 70.4, should be 71.2. Page 54: Castle Dale—Monthly minimum temperature 52.2, should be 54.0.

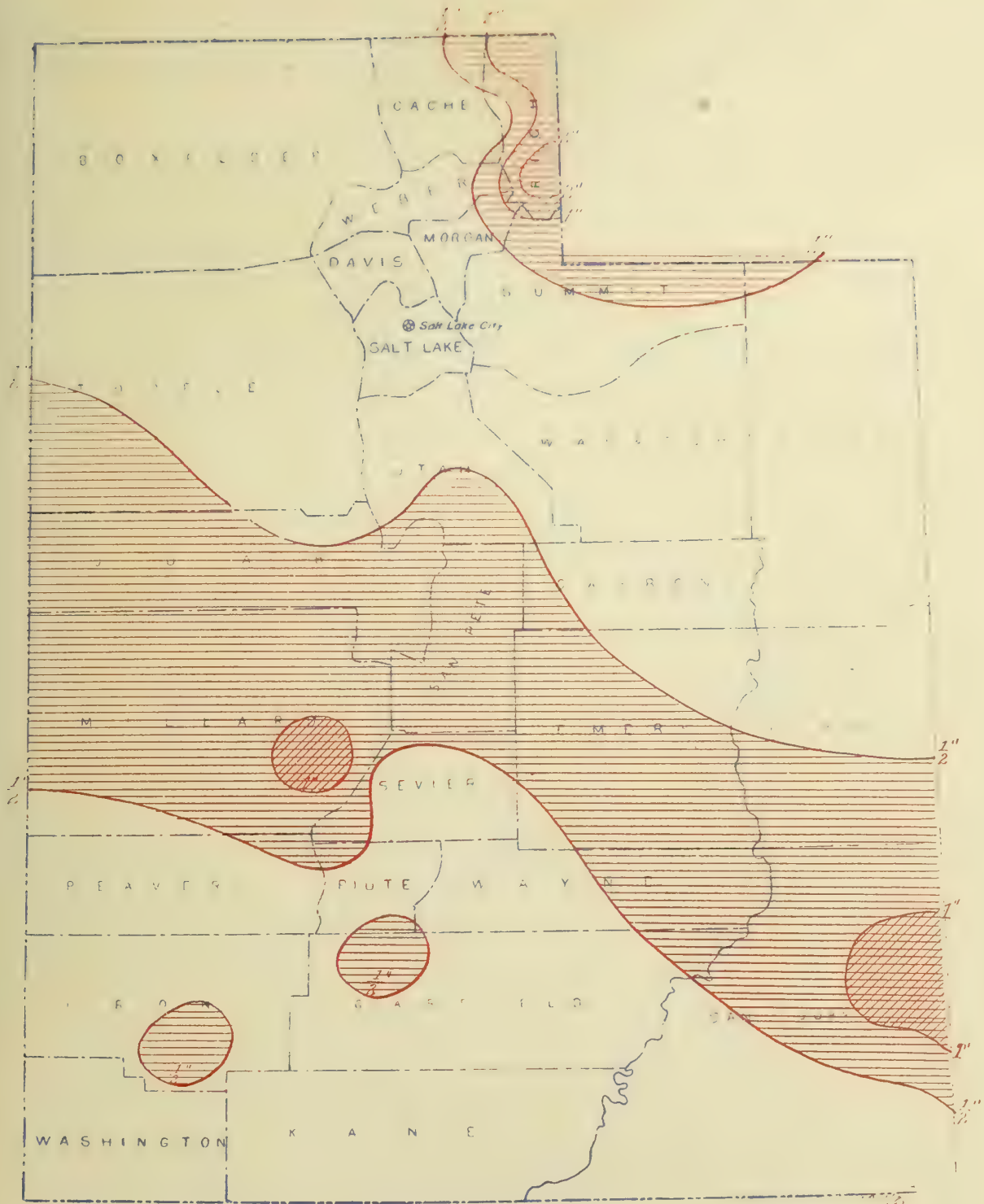
CLIMATOLOGICAL DATA, SEPTEMBER, 1907.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Days with .01 inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.
NORTHERN.																			
Alpine	Utah	4,900	11								0.40	-1.02	0.15	0.0	4				T. B. Whitby.
Alpine	Boxelder	4,240	37	66.6	+1.2	97	9	35	22	55	T.	-0.65	T.	0.0	0	17	9	4	Agent So. Pacific R. R.
Armington	Davis	4,267	7	57.9	-2.0	83	6	31	20	40	0.10	-0.85	0.05	0.0	3	23	4	3	Charles Boylin.
Boxelder	Utah	5,000	19								T.	-1.10	T.	0.0	0	22	4	4	Post Surgeon.
Boxelder	Wasatch	5,606	14	55.0	-0.3	86	12	26	*20	52	T.	-0.63	0.22	0.0	3	17	10	3	John Crook.
Boxelder	Summit	5,301	8	55.4	-1.6	86	11	22	*20	58	0.37	-0.53	0.09	0.0	3	15	11	4	William Brewer.
Boxelder	Weber	5,100	12								0.18	-0.53	0.09	0.0	3	15	11	4	Lars Petersen.
Boxelder	Boxelder	4,230	29	62.1	+0.9						0.10	-0.34	0.10	0.0	1	10	11	8	Agent So. Pacific Co.
Boxelder	Cache	4,507	16	61.0	-0.3	83	10	39	*20	35	0.12	-0.96	0.05	0.0	3				Agricultural College.
Boxelder	Boxelder		2	54.8		91	5	17	19	60	0.40		0.30	0.0	2	10	18	0	C. J. Burke.
Boxelder	Rich	6,200	8	53.8	-0.2	79	*3	25	19	37	1.55	+0.72	0.75	0.0	3	22	1	7	J. S. Moffat.
Boxelder	Cache	4,848	12								0.35	-0.65	0.25	0.0	3				Fred Yates.
Boxelder	Morgan	5,680	4	56.7		85	10	26	*20	52	0.34		0.14	0.0	3	17	8	5	T. R. G. Welch.
Boxelder	Weber	4,310	6																Enoch Farr.
Boxelder	Weber	4,310	37																W. H. Chevers.
Boxelder	Summit	7,800	10	54.8	+0.4	80	11	25	20	38	0.44	-0.27	0.25	0.0	7	14	16	0	J. M. Martin.
Boxelder	Bannock	4,483	7	60.0	-0.1	85	10	34	20	38	0.45	-0.43	0.30	0.0	5	21	7	2	Weather Bureau.
Boxelder	Rich	6,200	8	53.8	-0.2	79	*3	25	19	37	1.55	+0.72	0.75	0.0	3	22	1	7	Wm. Rex.
Boxelder	Salt Lake	4,366	3	59.1	-1.7	81	27	32	*20	44	T.	-0.75	T.	0.0	0	19	7	4	E. J. Bench.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	Section Center.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	N. J. Ferhaff.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	Joseph Robbins.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	S. A. Chivens.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	M. M. Smith.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	I. J. Elkington.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	Joab Collier.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	C. G. Youngberg.
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1.7	89	11	41	20	34	0.10	-0.75	0.07	0.0	4	19	7	4	
Boxelder	Salt Lake	4,366	33	63.4	-1														

MAXIMUM AND MINIMUM TEMPERATURES, SEPTEMBER, 1907.

Stations	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Mean.																													
NORTHERN.																																																													
Cornville	90.40	81.72	87.55	65.50	82.53	61.53	85.49	75.52	88.40	76.36	84.50	75.52	88.40	76.36	84.50	75.52	88.40	76.36	84.50	75.52	88.40	76.36	84.50	75.52	88.40	76.36	84.50	75.52	88.40	76.36	84.50	75.52	88.40																												
Farmonington	73.45	80.40	80.47	70.45	78.43	83.45	80.44	76.46	76.46	76.46	81.44	82.44	79.42	78.38	85.41	82.40	79.39	80.40	76.36	66.36	61.35	61.31	68.35	75.35	81.36	78.39	78.40	82.43	88.38	84.44	87.37	71.36	86.34																												
Ft. Duchesne	76.42	81.35	74.47	75.51	80.52	76.54	81.40	78.34	79.35	81.40	86.45	82.46	77.36	79.38	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34																												
Hobbs	76.42	81.35	74.47	75.51	80.52	76.54	81.40	78.34	79.35	81.40	86.45	82.46	77.36	79.38	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34																												
Honover	76.42	81.35	74.47	75.51	80.52	76.54	81.40	78.34	79.35	81.40	86.45	82.46	77.36	79.38	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34	79.39	77.34																												
Kelton	75.57	77.53	78.53	68.55	74.51	78.59	77.48	75.48	75.48	83.51	82.50	78.55	72.46	75.43	75.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51																												
Logan	75.57	77.53	78.53	68.55	74.51	78.59	77.48	75.48	75.48	83.51	82.50	78.55	72.46	75.43	75.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51	74.51																												
Lucin	87.32	83.35	85.39	85.39	91.31	86.36	86.36	84.35	85.37	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38	86.38																												
Meadowville	75.44	77.38	79.50	68.15	70.44	75.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43	74.43																												
Morgan	82.45	82.38	80.41	74.48	70.40	81.43	81.39	80.36	84.35	85.35	81.38	80.32	79.38	80.36	82.36	81.47	79.16	69.29	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35	63.35																												
Ogden No. 1	75.42	77.42	79.49	69.49	70.40	75.49	74.49	70.39	73.40	75.40	80.45	75.73	73.39	71.37	72.43	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44																												
Park City	75.42	77.42	79.49	69.49	70.40	75.49	74.49	70.39	73.40	75.40	80.45	75.73	73.39	71.37	72.43	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44																												
Pocatello, Idaho	75.42	77.42	79.49	69.49	70.40	75.49	74.49	70.39	73.40	75.40	80.45	75.73	73.39	71.37	72.43	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44																												
Porter Beach	75.42	77.42	79.49	69.49	70.40	75.49	74.49	70.39	73.40	75.40	80.45	75.73	73.39	71.37	72.43	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44	71.44																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53																												
Salt Lake City	79.57	83.56	80.61	78.59	77.56	82.56	80.55	75.55	76.54	86.52	89.58	81.58	72.59	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.53	79.																													

TOTAL PRECIPITATION, SEPTEMBER, 1907



SCALE OF SHADES IN INCHES



Day of month

† Precipitation incomplete.

541.06
UNE

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

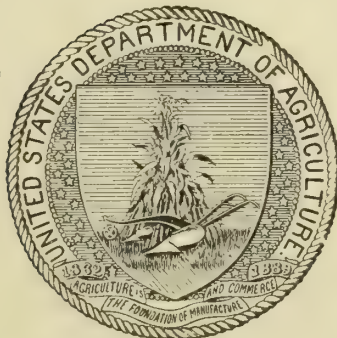
WILLIS L. MOORE,

CHIEF U. S. WEATHER BUREAU.

BY

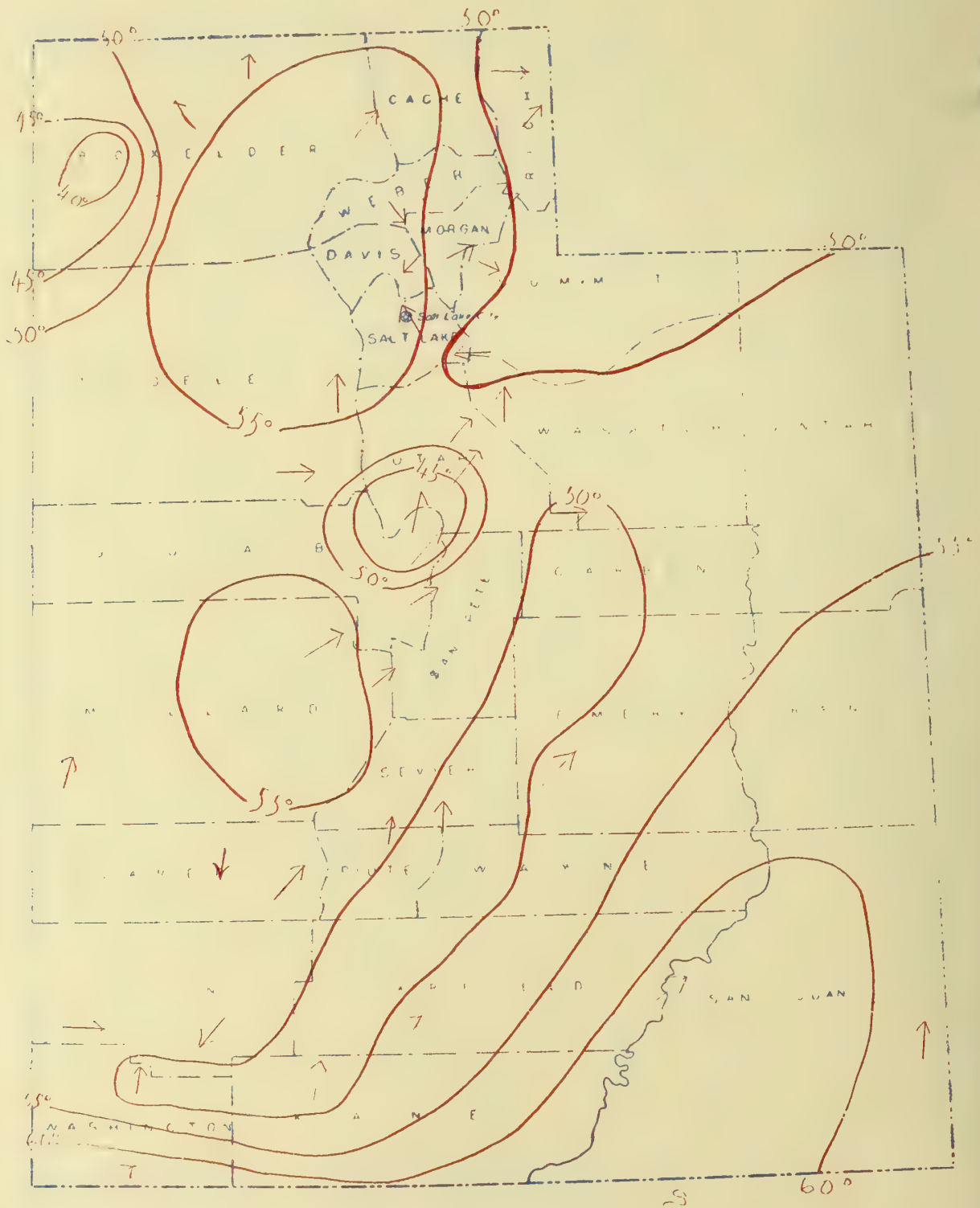
R. J. HYATT,

SECTION DIRECTOR



DENVER, COLO.:
WEATHER BUREAU OFFICE.
NOVEMBER 23, 1907.

MEAN TEMPERATURES AND PREVAILING WINDS, OCTOBER, 1907



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, OCTOBER, 1907. No. 10

GENERAL SUMMARY.

The mean temperature for the State averaged 4.8° above the normal. The excess was greatest over the middle section, being 5.5°, and least over the southern section, which was 3.6°. The first half of the month was somewhat warmer than the latter half. No unusually warm or cold periods occurred. The maximum temperatures were recorded at a major number of stations on the 11th, 12th, and 13th; the minimum temperatures on the 1st, 29th, and 30th. While frosts were more or less general over the State, there were a considerable number of stations at which none occurred.

The precipitation was above the normal amount over all portions of the State, the greatest excess being over the southern section, where relatively heavy precipitation occurred, several stations having amounts in excess of 3.00 inches for the month. Thunderstorms occurred on several dates at numerous points over the State. Snow in measureable quantities was reported from only two stations. Tho several falls occurred in the mountains, none fell in the valleys, except in small localities, and then only at the higher altitudes. Sleet was recorded at a few points in the southern portion of the State on the 2d, and a trace occurred at Salt Lake City on the 31st.

The winds were generally light thruout the State, the only exception being at Modena, where a velocity of 44 miles was recorded on the 2d.

The amount of sunshine which prevailed over the northern half of the State equaled or exceeded the normal amount, but was considerably deficient over the southern portion.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 52 stations, was 52.5°, which was 4.8° above the normal. The highest local monthly mean was 64.0° at Hite, and the lowest was 37.7° at Lucin. The highest temperature recorded was 90° at St. George on the 12th, and the lowest 17° at Coyote on the 3d, giving a range for the section of 73°. The greatest local monthly range was 61° at Scipio, and the least was 39° at Eden and Farmington.

PRECIPITATION.

The average precipitation, determined from the reports of 62 stations, was 1.15 inches, which was 0.57 inch above the normal for the State. The greatest monthly amount was 3.41 inches at Ranch, and the least was 0.20 inch at Thistle. The greatest amount of precipitation in any 24 consecutive hours was 1.54 inches at Cedar City on the 2d. There was an average of 6 days with 0.01 inch or more of precipitation; 6 over the northern, 5 over the middle, and 8 over the southern section.

WIND.

The prevailing direction for the section was southwest. The total number of miles recorded at Salt Lake City was 3,775; at Modena, 6,015; at Grand Junction, Colo., 3,009; and at Pocatello, Idaho, 3,961. The maximum velocity at Salt Lake City was 30 miles per hour from the east on the 13th; at Modena, 44 miles from the north on the 2d; at Grand Junction, Colo., 18 miles from the east on the 30th; and at Pocatello, Idaho, 26 miles from the southwest on the 12th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 13; partly cloudy days, 10; cloudy days, 8. Determined from the records of automatic sunshine recorders, Salt Lake City had 69 per cent; Modena 62 per cent; Grand Junction, Colo., 71 per cent; and Pocatello, Idaho, 84 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 56 per cent, the lowest observed reading being 30 per cent on the 12th; at Modena, 68 per cent, the lowest observed reading being 26 per cent on the 10th; at Grand Junction, Colo., 56 per cent, the lowest observed reading being 22 per cent on the 2d; and at Pocatello, Idaho, 60 per cent, the lowest observed reading being 28 per cent on the 9th and 16th.

OBSERVERS' REMARKS.

Corinne—Generally cloudy weather prevailed during the month. It was cooler during the latter part of the month than during the first half—A. C. Murphy.

Emery—The month has been warm. No frosts occurred—H. C. Wickman.

Farmington—The past month has been remarkably warm—Charles Boylin.

Government Creek—The past month has been a very pleasant one—Walter James.

Heber—Fine autumn weather, with warm days and cool nights, prevailed during the month—John Crook.

Henefer—The weather of the month was fine for all kinds of work—Wm. Brewer.

Hite—The first snow of the season fell on the nearby mountains on the 2d. No frosts have occurred during the present autumn to date—F. W. Gibbons.

Huntsville—Fine and mild weather prevailed during the month—Lars Petersen.

Marysville (near)—The weather during the month was cloudy and wet. The temperature was above the average. The precipitation was much in excess of the normal amount—John W. Henry.

Meadowville—October has been a very pleasant month. The soil is very dry at the present time—J. S. Moffat.

Minersville—No killing frosts occurred up to the close of the month—George Roberts, Sr.

Mt. Nebo—October was an exceptionally fine month, with but little change in temperature during the entire period—D. C. Walkey.

Parowan—The month has been very wet—Alex. Matheson.

Ranch—The rainfall of the past month has been heavy, and the ground is now very wet—J. Seaman.

Tropic—The month was warm and pleasant. Only very light frosts occurred—E. P. Bolton.

COMPARATIVE STATE DATA FOR OCTOBER.

Year.	Temperature.			Average precipitation.
	Mean.	Highest.	Lowest.	
1891	49.7	90	12	0.15
1892	48.3	92	7	1.08
1893	46.9	92	5	0.29
1894	49.8	94	9	0.47
1895	49.2	95	10	0.56
1896	51.0	94	13	1.61
1897	47.8	86	7	2.18
1898	47.0	90	3	0.67
1899	45.6	96	9	1.50
1900	48.9	95	—	0.87
1901	51.7	93	5	1.04
1902	50.0	91	8	0.28
1903	50.3	97	6	0.89
1904	48.7	97	7	0.92
1905	45.4	99	0	0.36
1906	48.4	98	6	0.31
1907	52.5	90	17	1.45

LATE REPORTS FOR SEPTEMBER.

Garrison—Mean temperature, 61.0°; highest, 87°, on the 4th and other dates; lowest, 25° on the 20th; greatest daily range 55°; total precipitation, 0.05 inch; greatest in 24 hours, 0.05 inch; number of rainy days, 1; clear, 22; partly cloudy, 5; cloudy, 1.

Ogden No. 1—Mean temperature, 62.4°; highest, 81° on the 11th; lowest, 41° on the 19th; greatest daily range, 29; total precipitation, 0.02 inch; greatest in 24 hours, 0.02 inch; number of rainy days, 1; clear, 20; partly cloudy, 7; cloudy, 3.

Grantsville—Total precipitation, 0.24 inch; greatest in 24 hours, 0.24 inch; number of rainy days, 1.

ERRATA FOR AUGUST.

Page 61: Aneth—Lowest temperature, recorded as 51° on the 29th, should be 50° on the 30th. Tooele—Highest temperature, recorded as 93°, should be 95°.

WATER STAGES.

The level of Great Salt Lake on October 1st was 2.9 feet above zero; on October 15th, 2.9 feet above, and on November 1st, 3.0 feet above.

MEAN TEMPERATURE AND TOTAL PRECIPITATION AT PAROWAN, IRON COUNTY, UTAH.

TEMPERATURE.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1891	22.8	26.9	36.4	47.0	56.7	62.4	71.0	72.8	60.4	51.5	43.8	25.4	48.9
1892	30.9	35.8	42.7	46.6	56.7	66.6	72.8	72.0	.....	.....	40.2	.....	.....
1893	31.0	30.3	37.6	45.3	54.0	67.0	72.8	70.4	.....	.....	36.2	34.0	.....
1894	25.1	23.2	38.5	47.0	57.8	59.5	70.2	68.3	58.8	50.6	43.0	28.6	47.9
1895	25.4	28.6	37.6	48.3	55.8	61.7	68.4	70.8	60.4	49.3	34.3	23.3	47.9
1896	33.6	33.4	40.0	44.0	53.5	68.5	70.9	69.7	60.7	51.1	35.2	34.8	49.9
1897	28.1	28.6	32.0	48.0	60.8	63.0	68.7	70.5	62.6	46.5	39.6	24.8	47.9
1898	19.8	32.4	34.3	52.6	52.8	64.9	71.5	71.9	62.3	48.0	34.9	23.8	47.9
1899	30.2	31.2	39.2	49.4	52.4	64.8	72.8	66.8	65.7	46.2	41.2	27.8	49.9
1900	31.0	31.4	45.0	43.8	57.8	67.9	71.4	67.1	56.9	48.5	40.5	30.6	49.9
1901	29.0	32.0	37.2	45.4	57.6	63.0	74.4	70.9	58.8	52.1	41.8	30.4	49.9
1902	28.2	31.6	34.6	48.6	56.0	66.8	69.0	69.2	61.5	50.5	33.6	29.0	49.9
1903	30.9	19.8	38.0	44.6	53.2	64.8	73.6	68.9	57.1	48.5	40.6	27.2	47.9
1904	24.7	30.4	41.7	47.3	55.6	63.0	70.2	67.9	60.6	47.6	40.9	29.6	48.9
1905	31.4	33.4	41.6	47.6	50.8	64.3	69.3	70.0	59.4	45.4	36.2	25.2	47.9
1906	26.6	34.2	38.4	43.8	54.4	63.0	71.6	67.2	58.4	48.4	35.8	32.0	47.9
M'n	28.4	31.0	38.4	46.8	55.4	64.4	71.2	69.6	60.3	48.9	38.6	28.4	48.9

PRECIPITATION.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1891	1.46	2.07	2.57	1.57	1.14	0.20	1.24	0.76	2.10	0	0	1.13	14.0
1892	0.47	1.03	1.79	2.03	0.83	0.04	0.66	1.24	0	2.32	0.20	0.39	11.0
1893	0.84	1.03	1.23	1.42	1.34	0	2.08	1.65	1.11	T.	1.38	0.72	12.0
1894	1.65	0.85	2.65	1.27	0.55	0.40	0.78	1.40	0.72	0.65	T.	1.88	12.0
1895	1.94	2.82	1.93	0.47	0.97	0.06	0.70	0.23	0.29	0.58	1.28	0.90	12.0
1896	0.16	0.48	0.71	0.83	0.93	0.08	1.69	3.00	0.47	0.36	0.30	0.16	9.0
1897	1.50	3.45	3.76	0.95	0.51	0.02	0.79	1.56	1.84	2.48	0.73	0.88	18.0
1898	1.99	1.20	1.66	0.64	3.35	0.24	1.19	1.46	0.25	0.30	0.72	0.82	13.0
1899	0.12	1.10	2.18	1.20	1.19	0.82	0.72	0.82	0.08	0.78	0.31	1.60	10.0
1900	0.51	0.23	0.18	2.64	0.61	0.13	0.11	0.84	0.82	0.56	0.34	0.07	7.0
1901	0.63	1.84	0.85	1.61	0.88	0.50	0.04	3.35	0.04	0.32	0.03	0.96	11.0
1902	1.18	0.31	1.83	0.21	0.18	0.06	0.49	0.76	0.50	0.61	1.86	1.03	9.0
1903	1.10	0.77	1.94	1.06	1.10	0.49	0.41	1.46	1.00	2.03	T.	0.53	11.0
1904	0.43	1.46	2.11	1.27	2.07	0.07	0.98	1.23	0.17	0.74	T.	0.79	11.0
1905	0.52	1.54	2.29	0.66	1.99	T.	0.75	0.37	3.80	0.12	1.11	0.32	13.0
1906	1.40	0.93	3.99	1.95	0.62	T.	1.71	3.10	3.49	0.41	2.09	1.18	20.0
M'n	0.99	1.32	1.98	1.24	1.14	0.19	0.90	1.45	1.04	0.77	0.65	0.84	12.0

MISCELLANEOUS PHENOMENA.

Haze—Marysville (near), 7, 8.

Frost, light—Modena, 27, 30.

Fog—Modena, 2, 17; Sunnyside, 24, 25.

Aurora—Morgan, 31; Nephi (near), 5, 15.

Halo, solar—Marysville (near), 8, 9; Theodore, 8, 9.

Sleet—Cedar City, 2; Salt Lake City, 31; Tropic, 2.

Halo, lunar—Marysville (near), 16; Nephi (near), 15.

Corona, lunar—Government Creek, 15, 16; Tropic, 16, 18.

Hail—Cedar City, 2; Marysville (near), 31; Sunnyside, 24.

Frost, heavy—Modena, 29; Provo, 31; Salt Lake City, 29, 30; Silver Lake, 1.

Frost, killing—Cedar City, 2, 29; Mt. Nebo, 29–31; Moab, 29, 30; Sunnyside, 27; Theodore, 3, 4.

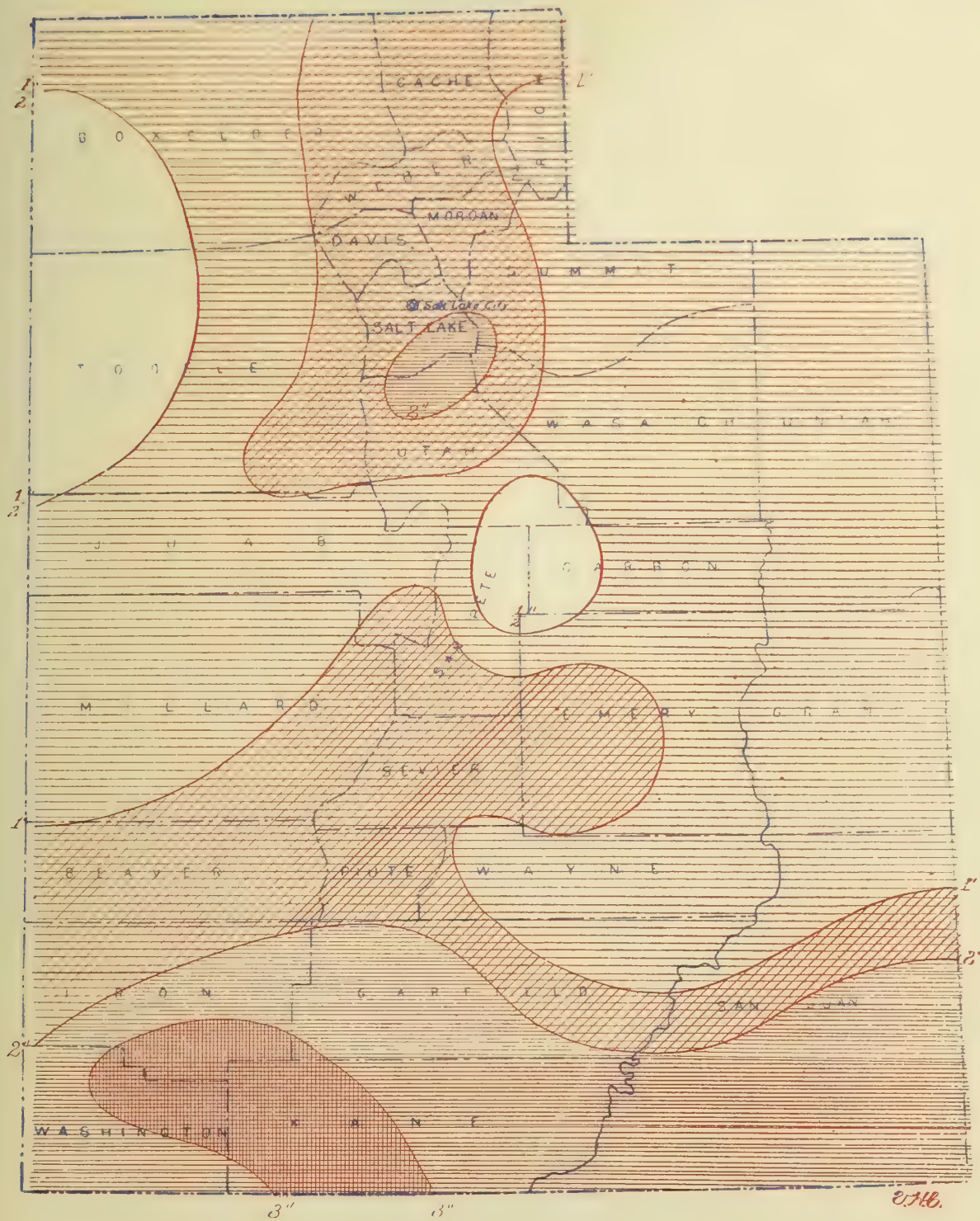
High wind—Government Creek, 1, 10; Henefer, 1, 12, 19; Lucin, 1–3, 13; Modena, 1–3, 12, 13, 27; Nephi (near), 1–3; Salt Lake City, 13, 18; Tropic, 1.

Thunderstorms—Beaver, 12–15, 17; Farmington, 17; Government Creek, 17, 20; Heber, 16, 18, 24; Henefer, 13, 16, 27; Hite, 14, 17; Huntsville, 13, 17, 18; Levan, 12; Marysville (near), 12, 15, 17, 19; Meadowville, 13; Milford, 17; Minersville, 13, 14; Modena, 21; Morgan, 13, 17, 28; Moab, 13, 17, 24; Nephi, 13; Nephi (near), 13; Ogden No. 1, 17; Ogden No. 2, 17, 24, 27, 28; Provo, 24, 28; Salt Lake City, 12, 13, 17, 18, 24; Silver Lake, 17–19, 28, 31; Snowville, 12, 19; Tropic, 4, 17.

CLIMATOLOGICAL DATA, OCTOBER, 1907.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (in melted).	Days with at least one inch or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.		
NORTHERN.																					
Alpine	Utah	4,900	11								2.21	+0.99	0.86	0.0	0					T. B. Whithy.	
Castle Rock	Summit																			David Moore	
Cannonville	Boxelder	4,240	37	57.6	+5.9	86	8	30	9	48	1.31	+0.37	0.82	0.0	4	16	11	4	sw.	Agent So. Pacific R. R.	
Drummond	Davis	4,267	7	54.6	+4.7	75	12	30	5	31	1.07	+0.14	0.75	0.0	6	20	8	3	ne.	Charles Boylin.	
Duchesne	Uinta	5,000	19																	Post Surgeon.	
Eastville (near)	Tooele										0.96		0.56	0.0	3					A. J. Fraser.	
Elber	Wasatch	5,606	14	50.6	+5.7	81	5	25	20	53	1.03	-0.21	0.30	0.0	8	14	11	6	s.	John Crook.	
Elmer	Summit	5,301	8	50.6	+6.0	82	5	24	21	52	1.05	-0.08	0.35	0.0	15	8	8	8	nw.	William Brewer.	
Elmville	Weber	5,100	12								1.95	+0.36	0.38	0.0	8	17	9	5		Lars. Peterson.	
Elmville	Boxelder	4,230	29	53.3	+5.7	75	7	33	4	47	0.57	+0.14	0.30	0.0	3	16	6	9	se.	Agent So. Pacific Co.	
Elmville	Cache	4,507	10	55.0	+4.9	76	12	30	2	33	1.45	+0.34	0.44	0.0	5					Agricultural College.	
Elmville	Boxelder		2	37.7		76	6	19	29	10	0.40		0.20	0.0	4	13	10	8		C. J. Burke.	
Elmville	Summit																			J. Woolstenhulme.	
Elmville	Rich	6,200	8	46.1	+3.0	69	6	27	30	38	1.12	+0.10	0.35	0.0	4	22	0	9	w.	J. S. Moffat.	
Elmville	Cache	4,848	12								1.39	-0.07	0.49	0.0	6					Fred Yeates.	
Elmville	Morgan	5,080	4	53.3		84	27	27	22	52	1.16		0.37	0.0	8	16	5	7	sw.	T. R. G. Welch.	
Elmville No. 1	Weber	4,310	6	50.0	+5.7	70	12	37	15	31	1.26	+0.24	0.35	0.0	7	22	5	4	nw.	Enoch Farr.	
Elmville No. 2 & 3	Weber	4,310	37	57.0	+5.2						0.89	-0.42	0.29	0.0	6	18	3	10	s.	W. H. Chevers.	
Elmville	Summit	7,800	10	47.6	+1.6	75	5	28	29	44	2.00	+1.37	0.43	0.0	9	0	28	3		J. M. Martin.	
Elmville	Rich		2								0.54		0.30	0.0	4	23	4	4	sw.	Wm. Rex.	
Elmville	Salt Lake		3	50.4		75	13	30	29	33	1.00		0.60	0.0	6					E. J. Boneh.	
Elmville	Salt Lake	4,366	33	57.4	+5.2	78	12	40	29	26	1.16	-0.24	0.52	0.0	9	18	6	7	se.	Section Center.	
Elmville	Salt Lake			48.2		76	8	23	30	50	2.62		0.85	4.0	11	12	10	9	e.	N. J. Ferharr.	
Elmville	Boxelder	4,366	17	51.6	+4.0	82	9	26	30	50	0.65	-0.38	0.20	0.0	4	12	17	2	s.	Joseph Robbins.	
Elmville	Wasatch		1																	S. A. Chivens.	
Elmville	Wasatch	5,507	1	54.0		73	15	32	3	35	0.53		0.28	0.0	3	6	11	3		M. M. Smith.	
Elmville	Tooele	4,900	11	55.8	+5.6	78	12	37	2	28	1.85	+0.58	1.15	0.0	5	22	5	4	s.	I. J. Elkington.	
Elmville (near)	Uinta		12																	Joab Collier.	
Elmville	Rich	6,500	10	47.8	+7.2	80	29	21	10	57	0.61	-0.44	0.30	0.0	3					C. G. Youngberg.	
Averages				51.7	+5.1						1.20	+0.18		0.2	6	16	9	6	s.		
MIDDLE.																					
Emeryville (near)	Sevier										1.69		0.65	0.0	5					J. W. Fairbanks.	
Emeryville	Millard	4,872	7																	Willard Burbank.	
Emeryville	Emery	5,500	8	49.8	+2.5	74	5	20	30	41	1.63	+1.12	0.66	0.0	5	11	17	3		James Jeffs.	
Emeryville	Millard	4,541	13																	S. W. Western.	
Emeryville	Emery	6,260	7	53.4	+9.2	78	3	30	3	48	1.83	+1.47	0.82	0.0	5	0	1	30	sw.	H. C. Wickman.	
Emeryville	Millard	5,100	17	57.4	+5.1	81	12	33	31	40	1.99	+1.16	0.88	0.0	7					J. J. Starley.	
Emeryville	Millard		4	55.2		78	14	30	1	47	0.64		0.33	0.0	2	10	0	6	s.	E. M. Smith.	
Emeryville	Tooele	5,277	7	53.8	+4.3	76	12	31	3	34	1.53	+1.06	0.85	0.0	6	17	9	5	w.	Walter James.	
Emeryville	Emery	4,080	10																	J. D. Hitch.	
Emeryville	Tooele	7,500																		Mrs. J. S. Lawton.	
Emeryville	Millard										1.41		0.95	0.0	4					Geo. Crane.	
Emeryville	Juab	5,010	17	52.0	+4.7	74	12	29	29	34	1.11	-0.18	0.32	0.0	7	18	8	5	sw.	William Brown.	
Emeryville	Snappe	5,575	13																	Louis C. Kjar.	
Emeryville	Utah	4,650	6	44.0	-5.8	73	11	32	29	33	0.76	+0.45	0.45	0.0	3	23	5	3	s.	D. C. Walkey.	
Emeryville	Snappe	5,859	15	54.0	+4.0	79	13	28	29	36										Miss Olive E. Peck.	
Emeryville	Juab		2								0.67		0.26	0.0	5	25	4	2	sw.	A. Madsen.	
Emeryville	Juab										0.84		0.25	0.0	5	4	20	7	n.	S. R. Boswell.	
Emeryville	Millard		2	55.6		80	10	21	27	41	0.69		0.30	0.0	5	18	6	7	sw.	J. Finlison.	
Emeryville	Utah	4,637									1.45		0.78	0.0	5	17	9	5	sw.	D. L. Coombs.	
Emeryville	Utah	1,532	15	53.8	+5.3	77	11	32	29	35	1.20	+0.36	0.50	0.0	4	10	14	7	sw.	W. K. Henry.	
Emeryville	Sevier	5,359	17																	J. J. Jensen.	
Emeryville	Millard	5,260	12	53.2	+5.8	83	10	22	29	47	1.35	+0.11	0.40	0.0	7	12	0	19	sw.	Thomas Memmott.	
Emeryville	Utah	7,474	15	47.6	+6.9	76	13	20	29	46										Agent Rio Grande R. R.	
Emeryville	Carbon										0.55		0.23	0.0	5					Henry Cullum.	
Emeryville	Utah	5,075	15	54.0	+6.8	80	12	24	27	48	0.20	-0.32	0.10	0.0	2	24	4	3		Agt. Rio Grande W. R. R.	
Emeryville	Juab		2	53.4		80	12	27	31	45	0.52		0.45	0.0	3	15	14	2		Mrs. W. A. Edwards.	
Emeryville	Utah																			W. A. Knight.	
Emeryville	Carbon	5,540	8								1.11	+0.23		0.0	5	14	10	7	sw.	Melville Branch.	
Averages				52.5	+5.5																
SOUTHERN.																					
Emeryville	San Juan	4,800	7	64.1		85	2	40	3	39	0.61		0.61		1	12	5	3		Miss S. Hubert.	
Emeryville	Beaver		2	51.2		76	9	26	31	38	1.99		0.52	0.0	13	4	7	20	sw.	James Connell.	
Emeryville	Iron		3	53.1		75	10	32	2	29	3.24		1.51	6.0	12	1	18	12	ne.	J. M. Foster.	
Emeryville	Garfield		0	45.0		75	4	17	3	54	2.20		0.70	0.0	5	15	11	2		Mrs. E. Clayton.	
Emeryville	Washington																			John Day.	
Emeryville	Garfield	5,700	7	52.4	+1.0	75	11	28	29	39	2.70	+2.29	0.70	0.0	11	17	0	14		Geo. H. Barney.	
Emeryville	Washington		3	62.4		88	12	37	31	40										Joseph T. Atkin.	
Emeryville	Beaver	7,318	13																	Prof. Albert Warren.	
Emeryville	San Juan		2	53.4		75	4	32	1	34	1.59		1.00	0.0	3	14	6	11	s.	Joseph A. Lyman.	
Emeryville	Garfield	3,000	8	64.0	+3.9	86	11	39	30	37	0.62	+0.49	0.28	0.0	5	13	15	3	sw.	F. W. Gibbons.	
Emeryville	Kane	4,925	7																	E. M. Ford.	
Emeryville	San Juan	7,000	7																	Mrs. G. W. Carpenter.	
Emeryville	Wayne	7,600	15	43.4	+2.0	65	8	20	28	37	0.75	+0.32	0.35	0.0	3					Michael Hansen.	
Emeryville	Piute	6,180	8	51.2	+2.9	77	7	24	29	45	1.97	+1.30	0.64	0.0	11	5	9	14	s.	John W. Henry.	
Emeryville	Beaver			51.8		78	10	25	31	40	1.71		0.60		7	12	14	5	n.	L. Manners.	
Emeryville	Beaver	5,070	10								1.86	+1.22	0.54	0.0							

TOTAL PRECIPITATION, OCTOBER, 1907



SCALE OF SHADES - IN INCHES



DAILY PRECIPITATION, OCTOBER, 1907.

Stations	Day of month.																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
NORTHERN.																																			
Alpine		.86				.48						.32							.28									.11			.16	2			
Castle Rock																																	1		
Cortina	.82											.21	.13					T.										.15	T.			T.	1		
Farmington	.06	.05										.06	T.					.07	T.					T.				.08	T.			.75	1		
Ft. Duchesne																																	0		
Grantville (near)		.56				.25							.15																				0		
Heber		.20	.10		.30	.10																											1		
Honolulu		.04	.25	T.								.02	.14																.05		.05		.35	1	
Huntsville		.33											.35					.04	.15						T.	.18		T.	.07		.38		.38	1	
Kelton		.21											.30																				.06	0	
Logan	T.	.44											.30														.10			.17				.44	0
Lucin	T.	.05											.20																.10			T.	T.	0	
Marion																																		1	
Mea lowville		.22											.35																.35				.20	1	
Millville	.03	.39											.09												T.	.13			.18			.17		1	
Morgan	.08	.13											.05														.03	.10	.12	.28			.37	1	
Ogden No. 1		.05	.35										.30					.07											.10	.15		.24	1		
Ogden No. 2		.29											.20					.07												.09	.13		.11	0	
Park City		.33	.32			.23							.07	.06															.43	.20		.16	.20	0	
Randolph					.05						T.	.14																			.30		.05	0	
Saltair Beach		.60				.05							.13																	.07	.04		.11	1	
Salt Lake City	.08	.44			T.	.15						.01	.18																.01	.01	.02		.26	1	
Silver Lake		.04	.85	.20	.31								.11					.02	.01	T.	T.								.15	.13		.45	.35	2	
Snowville	.15												.15	.20						T.													.15	0	
Strawberry Valley																																		0	
Theodore		.18				.28							T.																.07					0	
Tooele		1.15				.16							.26																	.09			.19	1	
Vernal (near)																																		0	
Woodruff		.01											.30																					0	
MIDDLE.																																			
Annabella (near)		.65							.50				.10		.19													.25					1		
Black Rock																																		1	
Castle Dale			.25					.66					.22												.45	.05								1	
Doseret																																		1	
Emery				.25		.22	.34																											1	
Fillmore		.88			.08	.29	.35						.25																					1	
Garrison	T.	.31																																0	
Government Creek		.85			T.	.28							.20					.02	.33															1	
Green River																																		1	
Hatch (near)																																		1	
Kanosh		.95			.36								.07							.03														1	
Levan		.30			.25								.32																	.06	.02		.06	.10	1
Manti																																		0	
Mount Nebo		.45			.30																													.01	0
Mount Pleasant																														.01				.15	1
Nephi		.11		.02	.23								.26																		.02			0	
Nephi (near)		.16			.25								.23																		.06			.14	0
Oak City		.08		.30									.17																	.09	.05			0	
Payson		.78			.35								.14																		.10			.08	1
Provo	T.	.40			.50								.20																					.10	1
Richfield																																			1
Scipio	T.	.40			.31							T.	.30	T.						.12		.06		.07	T.								.09	1	
Soldier Summit																																			0
Sunnyside		.04			.23								.17																	.04	.07	T.		0	
Thistle			.10																															.10	0
Trout Creek	T.				.05							T.																						0	
Utah Lake Pumping Station																																			0
Wellington																																			0
SOUTHERN.																																			
Arveth			T.		.30	.10							.03	.31	.05	.10	T.	.10			T.	T.	T.		.14	.15	.01			.07			.08	1	
Beaver		.54												.31				.10																3	
Cedar City		.51	.37		.53	.03								.31				.11		.13	.05													2	
Coyote		.70			.50								.70					.20																1	
Enterprise (near)																																			2
Escalante		.70		.22	.23	.03							.03		.05	.02	.36								.50	.54	.02							1	
Fillmore																																			1
Grayson					1.00								T.																					1	
Hite		.05	T.		T.	.28	T.						.01																						

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

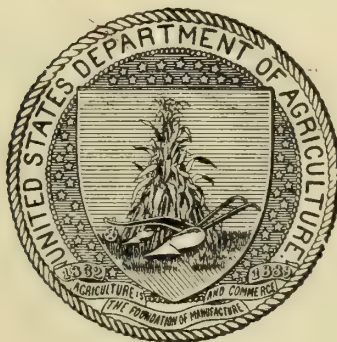
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

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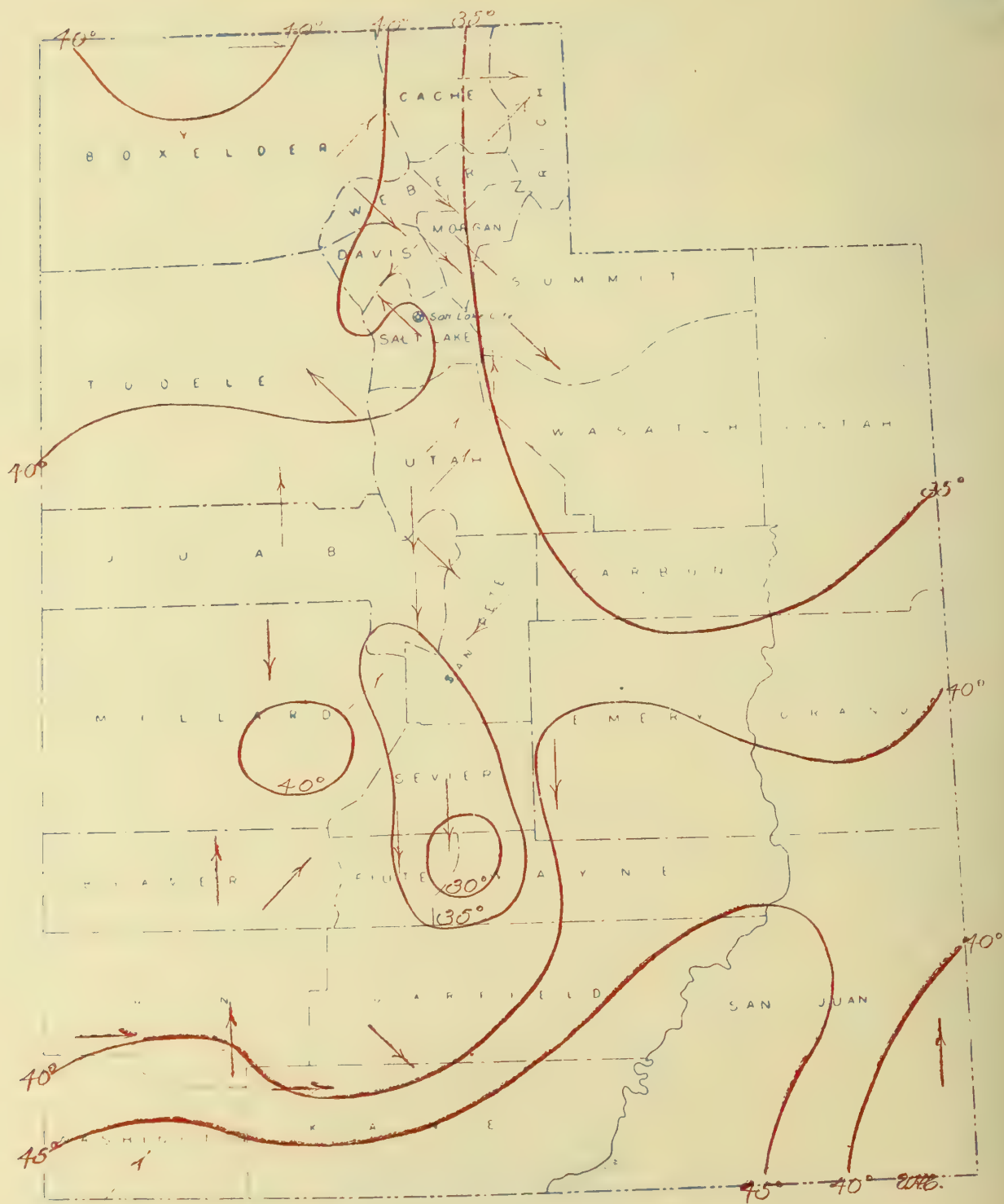
V. H. CHURCH,

ACTING SECTION DIRECTOR.



DENVER, COLO.:
WEATHER BUREAU OFFICE.
DECEMBER 19, 1907

MEAN TEMPERATURES AND PREVAILING WINDS, NOVEMBER, 1907



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. IX. SALT LAKE CITY, UTAH, NOVEMBER, 1907. No. 11

GENERAL SUMMARY.

The mean temperature was nearly normal over the northern and southern sections of the State. A deficiency of 1.4° occurred over the middle section. Mild temperatures and fair weather prevailed during the first decade of the month. From the 11th to the 22d, the temperature was considerably lower, some cloudy weather occurred, and during which time, the entire precipitation for the month was recorded. The closing days of the month were relatively warmer, and were generally clear and pleasant.

The precipitation occurred mostly in the form of snow, and was quite uniformly distributed over all portions of the State, but was greatly deficient in amount, being only 35 per cent of the normal. The depth of snow in the mountains at the close of the month was much less than the usual amount on that date during recent years.

The first killing frosts of the season at Salt Lake City and Modena were recorded on the 1st, and those at other stations where none occurred previous to the opening of the month, were generally recorded between the 1st and the 4th.

The average wind velocities were exceptionally light, and much calm weather prevailed. No high winds were reported from any locality.

The percentage of sunshine was in excess of the normal amount for the month, due to the large number of clear days which characterized the weather of the first and last decades.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 52 stations, was 37.4° , which was 0.6° below the normal. The highest local monthly mean was 49.8° at St. George, and the lowest was 30.6° at Woodruff. The highest temperature recorded was 79° at Springdale on the 9th and at Richfield on the 14th, and the lowest, -8° at Loa on the 18th and other dates, giving a range for the section of 87° . The greatest local monthly range was 74° at Richfield, and the least was 37° at Farmington and Logan.

PRECIPITATION.

The average precipitation, determined from the reports of 62 stations, was 0.34 inch, which was 0.64 inch below the normal for the State. The greatest monthly amount was 0.80 inch at Gunnyside, and no precipitation fell at St. George. The greatest

amount of precipitation in any 24 consecutive hours was 0.61 inch at Alpine on the 21st. There was an average of 2 days with 0.01 inch or more of precipitation; 3 over the northern, 2 over the middle, and 2 over the southern section.

WIND.

The prevailing direction for the section was north. The total number of miles recorded at Salt Lake City was 2,947; at Modena, 5,788; at Grand Junction, Colo., 2,467; and at Pocatello, Idaho, 4,798. The maximum velocity at Salt Lake City was 30 miles per hour from the north on the 26th; at Modena, 28 miles from the west on the 19th; at Grand Junction, Colo., 15 miles from the southeast on the 17th; and at Pocatello, Idaho, 32 miles from the southwest on the 26th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 19; partly cloudy days, 6; cloudy days, 5. Determined from the records of automatic sunshine recorders, Salt Lake City had 74 per cent; Modena 78 per cent; Grand Junction, Colo., 74 per cent; and Pocatello, Idaho, 83 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 62 per cent, the lowest observed reading being 39 per cent on the 5th; at Modena, 67 per cent, the lowest observed reading being 29 per cent on the 5th; at Grand Junction, Colo., 54 per cent, the lowest observed reading being 16 per cent on the 11th; and at Pocatello, Idaho, 61 per cent.

COMPARATIVE STATE DATA FOR NOVEMBER.

Year.	Temperature.			Average precipitation.
	Mean.	Highest.	Lowest.	
1891	41.1	80	6	0.21
1892	36.7	76	-6	0.30
1893	34.4	86	-16	0.83
1894	40.0	82	-9	0.05
1895	32.7	75	-24	1.47
1896	33.4	78	-20	1.23
1897	39.3	78	-1	0.96
1898	35.7	82	-8	0.90
1899	40.5	82	-3	0.70
1900	40.1	80	1	1.51
1901	41.3	76	0	0.29
1902	36.9	81	-13	1.78
1903	39.1	80	-19	0.73
1904	39.4	83	0	T.
1905	37.9	79	-11	1.53
1906	36.1	90	-18	1.81
1907	37.4	79	-8	0.34

MISCELLANEOUS PHENOMENA.

Fog—Marysville (near), 8.
 Aurora—Marysville (near), 20.
 Halo, solar—Marysville (near), 23.
 Earthquake (slight)—Mt. Nebo, 12.
 Hail—Farmington, 15; Levan, 20; Nephi, 20.
 Haze—Marysville (near), 9, 16, 19; Randolph, 20, 21.
 Frost, killing—Modena, 1; Nephi, 4; Salt Lake City, 1.
 Sleet—Government Creek, 20; Nephi (near), 18; Payson, 18; Salt Lake City, 15.
 Halo, lunar—Beaver, 23; Levan, 14, 15; Marysville (near), 15, 23; Modena, 14, 23.

OBSERVERS' REMARKS.

Corinne—Fine weather prevailed during the month. An inch of snow fell on the 21st—A. C. Murphy.

Deseret—Clear and calm weather prevailed during the greater part of the month. Owing to the small amount of precipitation, the ground was quite dry—S. W. Western.

Emery—The month was very dry. The first and latter parts were comparatively warm, the middle portion being considerably colder—H. C. Wickman.

Fort Duchesne—Remarkable weather prevailed during the month. There were no perceptible winds, and the days were exceptionally warm for this time of the year—J. F. Francis.

Government Creek—The weather was very fine during the month—Walter James.

Heber—The weather was very mild. There were only five days with precipitation. This fell in the form of snow, and was much below the normal in amount—John Crook.

Henefer—November was a remarkably fine month for all kinds of outdoor work. The weather was cold and clear—Wm. Brewer.

Huntsville—The weather during the month was extremely fine—Lars Petersen.

Levan—With the exception of a light storm which continued from the 17th to the 21st, the month was an ideal one—Wm. Brown.

Marion—November was a warm month, with pleasant days but cool nights. There was very little snow in the mountains, being much below the average for the time of the year—James Woolstenhulme.

Marysvale (near)—The month was generally clear and pleasant. The precipitation was below the normal, and the temperature above—John W. Henry.

Meadowville—During the month, the days were warm, but the nights were very cold. The ground has been frozen for some time—J. S. Moffat.

Morgan—This has been the clearest and finest November in several years, and was excellent for all outdoor work—T. R. G. Welch.

Mt. Nebo—The month was very pleasant. The nights were cold, but the days were warm, with an abundance of sunshine—D. C. Walkey.

Parowan—Storms prevailed on the 6th and 7th, and from the 16th to the 21st, but the remainder of the month was quite pleasant—Alex. Matheson.

Ranch—The month was very dry. During the latter portion the ground was frozen—J. W. Seaman.

Richfield—Clear days and cold, frosty nights prevailed during the greater portion of the month—Joseph J. Jensen.

Sunnyside—Stormy weather prevailed on the 17th and 18th, which was preceded and followed by very cold weather for some days—Henry Cullum.

Theodore—November was a remarkably fine month. There was little or no wind. White frosts were general thruout the month. No ice has formed on the rivers yet, tho during the preceding two years it was of sufficient thickness to afford safe crossing by teams at this time of the year—M. M. Smith.

Tropic—Pleasant days and cold nights were the general features of the weather for the month. Some snow fell in the mountains—E. P. Bolton.

Trout Creek—With the exception of very cool nights, the weather of the month has been pleasant—Mrs. W. A. Edwards.

MEAN TEMPERATURE AND TOTAL PRECIPITATION AT
LOA, WAYNE COUNTY, UTAH.

TEMPERATURE.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1892	25.4	29.8	32.2	40.8	50.2	60.3	67.6	64.6	58.4	42.4	33.2	22.2	43
1893	27.9	23.8	33.3	40.4	50.6	61.1	67.5	63.8	53.2	42.3	29.8	27.4	43
1894	20.0	20.5	34.5	42.7	53.4	56.4	66.8	64.4	52.2	43.9	36.6	22.2	42
1895	19.5	23.8	32.4	40.9	.....	.....	63.8	64.7	55.1	43.0	30.0	19.2	.....
1896	28.3	26.2	33.0	39.0	48.4	63.5	67.0	64.3	55.5	43.4	29.0	25.9	43
1897	20.8	21.2	25.7	40.0	54.3	57.6	62.4	63.2	51.4	40.6	31.9	21.4	41
1898	12.8	25.2	27.2	43.2	45.8	.....	65.7	65.4	52.3	37.5	29.6	.....	.....
1899	24.4	24.0	34.2	42.2	48.0	60.1	67.0	60.4	56.8	40.4	34.7	23.3	43
1900	27.8	29.2	37.5	40.7	53.2	62.9	66.2	57.1	48.2	39.0	29.7	22.0	42
1901	19.1	23.6	26.8	36.2	49.4	51.6	64.4	.....	48.0	41.2	31.6	25.3	.....
1902	20.3	24.8	24.6	39.2	46.0	57.8	60.1	58.2	49.6	40.2	.....	14.0	.....
1903	15.2	7.2	29.4	36.0	44.8	58.4	71.1	68.0	51.8	44.6	35.8	23.6	41
1904	21.2	31.2	37.5	43.2	53.2	60.0	67.4	66.2	56.6	42.2	33.9	24.4	41
1905	22.7	24.4	36.0	43.2	47.8	61.1	61.8	64.4	55.5	39.6	29.6	7.8	41
1906	14.1	22.2	31.8	41.8	50.8	58.6	64.8	62.8	51.5	40.7	29.0	25.6	4
M'n	21.3	23.8	31.7	40.6	49.7	59.4	66.0	63.4	53.5	41.4	31.6	21.7	42

PRECIPITATION.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1892	0.35	0.28	0.25	0.15	0.76	0.05	0.32	0.12	0	0.37	0.15	0.25	3.6
1893	0.40	1.12	0.52	.....	T.	0	1.42	2.25	0.83	0	1.08	0.30	7.9
1894	0.13	0.55	1.42	0.12	0.25	0.19	1.05	1.50	0.37	0.49	0	0.79	6.6
1895	1.42	1.00	0.35	0.05	0.16	0.16	0.71	0.39	0.77	1.00	0.50	.....	.....
1896	0.05	0.05	0.15	0.10	0.10	0.35	2.57	1.94	0.78	0.42	0.34	T.	6.8
1897	1.05	1.80	0.69	1.05	0.71	0.22	0.49	1.39	2.00	1.83	0.27	0.65	11.5
1898	0.33	0	0.17	0.45	1.50	.....	0.60	1.12	0.09	0	0	0	.....
1899	0.10	0.38	0.29	0.65	0.17	0.42	2.20	0.77	0	0.22	T.	0.20	5.8
1900	T.	0.10	0.20	1.80	T.	0.45	0.95	0.74	0.52	0.42	0.50	T.	5.7
1901	T.	0.50	0.35	0.30	0.10	0.10	0.67	3.76	0	0.26	0	0.40	6.4
1902	0.80	0.40	1.50	.....	0.10	0	0	0.78	0.33	0	1.20	0.65	.....
1903	0.60	0	0.41	0	0.65	0.35	0.95	0.40	0.35	0.85	0	0	4.9
1904	0	0.50	0.80	1.00	0.19	0.15	.....	1.40	0.30	0	0	0	.....
1905	0.30	1.90	0.20	0.30	0.10	0	0.66	0.67	1.05	0.10	1.05	.....	.....
1906	1.50	0.15	4.00	3.00	0.35	0	0.90	0.56	1.30	0	0.96	0.45	13.0
M'n	0.49	0.59	0.75	0.69	0.34	0.17	0.92	1.19	0.57	0.40	0.43	0.26	6.8

LATE REPORTS FOR OCTOBER.

Deseret—Mean temperature, 54.3°; highest, 81°, on the 10th; lowest, 25°, on the 29th; greatest daily range, 44°; total precipitation, 0.60 inch; greatest in 24 hours, 0.32 inch; number of rainy days, 4; clear, 17; partly cloudy, 7; cloudy, 7; prevailing wind direction, north.

Richfield—Mean temperature, 50.2°; highest, 83°, on the 11th; lowest, 18°, on the 30th; greatest daily range, 54°; total precipitation, 4.50 inches; greatest in 24 hours, 2.00 inches; total snowfall, 3.5 inches; number of rainy days, 4; clear, 12; partly cloudy, none; cloudy, 16; prevailing wind direction, southwest.

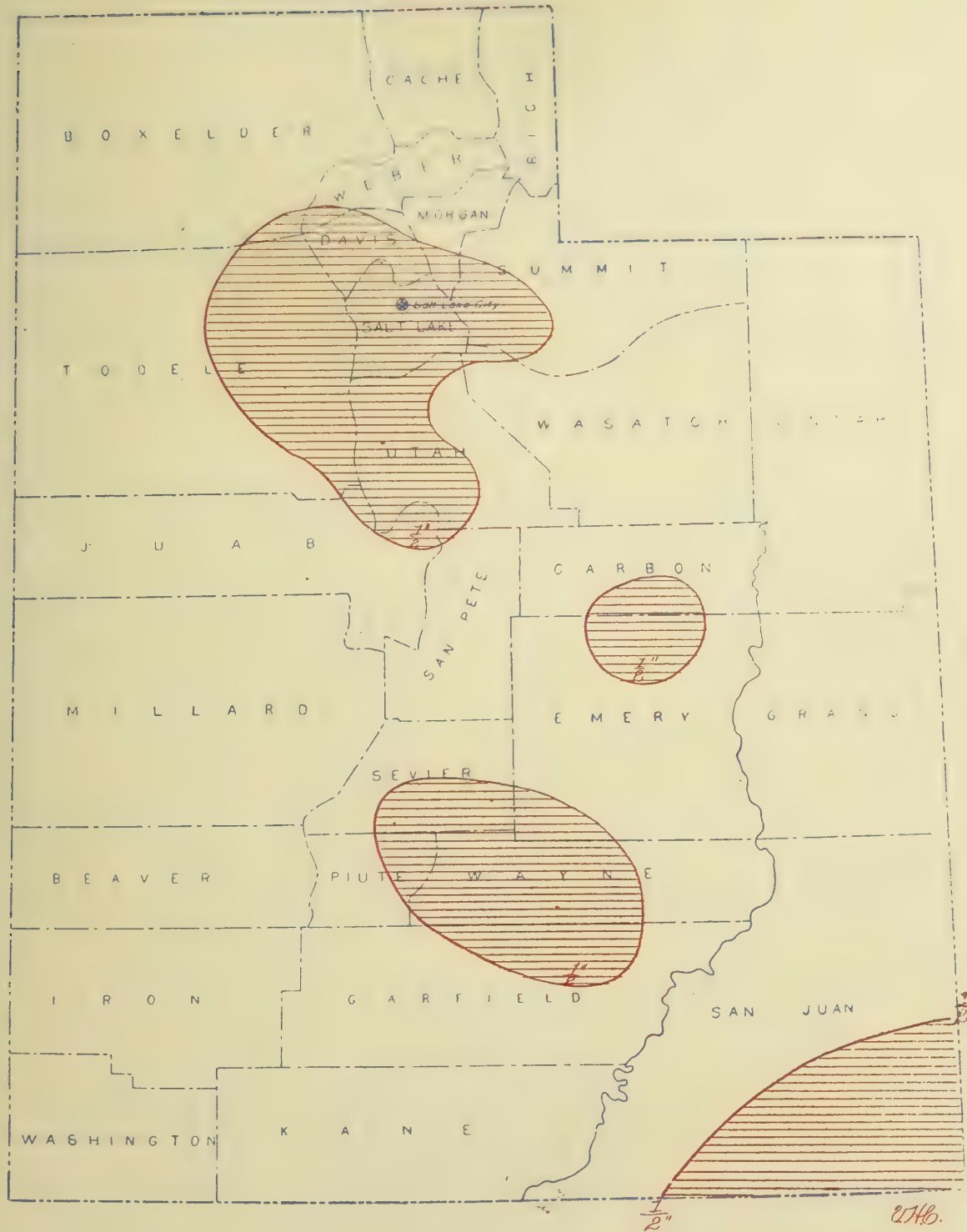
WATER STAGES.

The level of Great Salt Lake on November 1st was 3.0 feet above zero; on November 15th, 3.0 feet above, and on December 1st, 3.0 feet above.

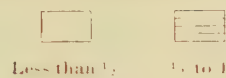
CLIMATOLOGICAL DATA, NOVEMBER, 1907.

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit						Precipitation, in inches						Sky			Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in unmelting	Days with 1/2 inch or more	Number clear days	Number partly cloudy days	Number cloudy days		
NORTHERN.																				
Alpine	Utah	4,900	11								0.63	-0.73	0.61	7.0	2					T. B. Whitby.
Black Rock	Summit																			David Moore.
Boxelder	Boxelder	4,210	37	41.4	+0.4	60	1	17	22	11	0.21	-0.80	0.11	1.0	2	21	6	3	sw.	Agent So. Pacific R. R.
Davis	Davis	4,207	7	39.1	+5.0	60	6	23	*13	29	0.88	-0.88	0.45	4.5	3	19	6	5	ne.	Charles Boylin.
Drummond	Uinta	5,000	7	38.8	+0.3	70	1	7	13	48	0.23	-0.04	0.20	1.8	2	19	4	7		Post Surgeon.
Drummond (near)	Tooele										0.55		0.30		2					A. J. Fraser.
Emery	Wasatch	5,000	11	31.8	-1.0	63	2	8	22	44	0.33	-1.09	0.15	8.8	5	19	6	5	s.	John Crook.
Emery	Summit	5,304	8	31.6	+1.1	67	6	0	*12	19	0.20	-1.58	0.14	1.5	4	19	8	3	nw.	William Brewer.
Emery	Weber	5,100	12								0.32	+0.09	0.22	3.5	3	18	10	2	nw.	Lars Peterson.
Emery	Boxelder	4,230	49	35.6	+3.8	60	0	11	22	35	T.	-0.32	T.	T.	0	18	11	1	n.	Agent So. Pacific Co.
Emery	Cache	4,507	10	37.6	-0.5	58	0	21	10	47	0.13	-1.06	0.10		2					Agricultural College.
Emery	Boxelder		2													20	2	8		C. J. Burke.
Emery	Summit										0.73		0.18	8.9	7	13	7	19	nw.	J. Woolstenhulme.
Emery	Rich	6,200	8	32.0	-2.5	57	6	12	22	31	0.10	-1.31	0.10	0.4	1	21	4	5	w.	J. S. Moffat.
Emery	Cache	4,848	12								0.35	-1.32	0.22		4					Fred Yeates.
Emery	Morgan	5,080	4	30.2		65	*5	10	15	17	0.42		0.19	4.0	3	23	6	1	nw.	T. R. G. Welch.
Emery	Weber	4,310	6	39.6	-0.7	59	*2	21	10	25	0.48	-0.53	0.34	3.5	2	17	2	11	nw.	Enoch Farr.
Emery	Weber	4,310	37																	W. H. Chevers.
Emery	Summit	7,800	10	31.2	-4.1	60	5	7	23	33						1	26	3		J. M. Martin.
Emery	Rich		2								0.20		0.10	2.0	2	27	0	3	sw.	Wm. Rex.
Emery	Salt Lake		3	33.8		54	*2	14	22	28	0.52		0.28	2.0	3					E. J. Bench.
Emery	Salt Lake	4,366	33	41.4	+1.0	62	20	24	22	27	0.50	-0.02	0.23	3.0	3	20	5	5	se.	Section Center.
Emery	Boxelder	4,360	17	30.8	-0.2	60	8	8	20	45	0.15	-0.77	0.15		1	18	12	0	w.	N. J. Ferheralf.
Emery	Wasatch																			Joseph Robbins.
Emery	Wasatch	5,507	1	33.4		64	3	9	13	41	0.29		0.29	3.0	1	18	9	3		S. A. Chivens.
Emery	Tooele	4,900	11	39.8	-0.1	60	20	22	27	47	0.62	-0.89	0.26		3	23	1	5	se.	M. M. Smith.
Emery	Uinta		12																	I. J. Elkington.
Emery	Rich	6,500	10	30.6	0	66	0	1	19	51	0.20	-0.10	0.20	4.0	1					Joab Collier.
Averages				36.0	-0.1						0.35	-0.77		3.3	3	19	7	4	nw.	C. G. Youngberg.
MIDDLE.																				
Black Rock	Sevier										0.50		0.50	5.0	1					J. W. Fairbanks.
Black Rock	Millard	4,872	7																	Willard Burbank.
Black Dale	Emery	5,500	8	30.4	-0.8	66	6	12	*22	48	0.47	-0.38	0.25	0.0	2	21	7	0		James Jeff.
Blackfoot	Millard	4,511	13	35.8	-1.0	64	1	11	*12	49	0.20	-0.20	0.11	4.0	3	20	4	6	n.	S. W. Western.
Blackfoot	Emery	6,260	7	41.4	+7.6	73	11	17	*14	55	0.10	-0.05	0.10	1.0	1	15	8	7	n.	H. C. Wickman.
Blackfoot	Millard	5,100	17	43.8	+2.2	75	2	21	21	48	0.25	-0.59	0.15		2					J. J. Starley.
Blackfoot	Millard		4								0.49		0.20		3					E. M. Smith.
Blackfoot Creek	Tooele	5,277	7	37.2	-2.3	62	6	10	22	34	0.37	-0.66	0.13		3	19	9	2	s.	Walter James.
Blackfoot River	Emery	4,080	10	37.1	-3.4	63	16	15	21	35	0.20	-0.47	0.20		1	13	3	1		J. D. Hitch.
Blackfoot (near)	Tooele	7,500																		Mrs. J. S. Lawton.
Blackfoot (near)	Millard										0.49		0.20		3					Geo. Crane.
Blackfoot	Juab	5,010	17	36.1	-0.8	60	*2	13	22	35	0.36	-0.57	0.18	3.6	4	21	4	5	n.	William Brown.
Blackfoot	Sanpete	5,575	13								0.53	+0.10	0.46	3.0	3	22	0	8	n.	Louis C. Kjar.
Blackfoot	Utah	4,050	6	37.0		61	2	17	22	33	0.28	-0.54	0.28	2.8	1	16	7	7	ne.	D. C. Walkey.
Blackfoot	Sanpete	5,859	15	37.8	-1.6	69	1	10	22	41	0.28	-0.54	0.38	6.0	3	23	2	5	nw.	Miss Olive E. Peck.
Blackfoot	Juab		2								0.66		0.33		5	21	7	2	n.	A. Madsen.
Blackfoot	Juab		2								0.50		0.12		1	21	5	4		S. R. Boswell.
Blackfoot	Millard		2	38.4	-1.6	67	4	19	22	39	0.12		0.37	1.0	3	17	4	9	sw.	J. Finlison.
Blackfoot	Utah	4,637	2								0.55		0.20	3.0	2	11	13	6	sw.	D. L. Coombs.
Blackfoot	Utah	4,532	15	37.6	-1.6	64	2	19	*12	34	0.30	-0.65	0.20	3.0	2	11	13	6	sw.	W. K. Henry.
Blackfoot	Sevier	5,350	17	33.1	-4.9	79	11	5	21	72	0.32	0	0.32	3.2	1	17	1	4	sw.	J. J. Jensen.
Blackfoot	Millard	5,200	12	39.7	-6.6	95	2	9	*12	50	0.28	0.93	0.18	2.0	3	15	4	8	sw.	Thomas Memmott.
Blackfoot	Utah	7,474	15	31.4	+2.6	55	*7	6	*18	44	0.30	-0.84	0.30	3.0	1	19	5	0		Agent Rio Grande R. R.
Blackfoot	Carbon										0.80		0.60	8.0	2					Henry Cullum.
Blackfoot	Utah	5,075	15	38.6	+1.9	68	*1	8	24	49	0.60	-0.49	0.20	6.0	3	24	4	2		Ag't. Rio Grande W. R. R.
Blackfoot	Juab	2	2	36.0		65	26	10	19	45	T.	T.	T.	0	14	14	2			Mrs. W. A. Edwards.
Blackfoot	Utah		2								0.40	0.09	0.40	4.0	1					W. A. Knight.
Blackfoot	Carbon	5,510	8	33.0	-3.7			9	*12		0.40	-0.53		3.3	2	19	6	5	n.	Melville Branch.
Averages				36.6	-1.4						0.37	-0.53		3.3	2	19	6	5		
SOUTHERN.																				
Blackfoot	San Juan	4,800	7																	Miss S. Hubert.
Blackfoot	Beaver		2	38.2		65	6	11	22	42	0.25		0.12	2.5	3	21	8	1	sw.	James Connell.
Blackfoot	Iron		3	41.0		64	3	19	22	32	0.20		0.14	T.	2	18	9	3	s.	J. M. Foster.
Blackfoot	Garfield		0	37.0	+3.6	66	5	10	*20	50						23	0	7		Mrs. E. Clayton.
Blackfoot	Washington																			John Day.
Blackfoot	Garfield	5,700	7	39.0	-0.8	66	9	15	*22	37	0.19	-0.19	0.19		1	21	7	0		Geo. H. Barney.
Blackfoot	Washington		3	45.4		73	*2	19	23	44						21	7	2		Joseph T. Atkin.
Blackfoot	Beaver	7,318	13																	Prof. Albert Warren.
Blackfoot	San Juan		2	39.0		63	*4	15	22	32	0.75		0.50	5.0	2	23	0	7	s.	Joseph A. Lyman.
Blackfoot	Garfield	3,000	8	47.6	0	73	5	24	30	39	0.45	-0.83	0.27	0.0	4	20	8	2		F. W. Gibbons.
Blackfoot	Kane	4,925	7																	E. M. Ford.
Blackfoot	San Juan	7,000	7																	Mrs. G. W. Carpenter.
Blackfoot	Wayne	7,000	15	26.8	-5.0	56	*6	8	*18	53										Michael Hansen.
Blackfoot	Piute	6,180	8	36.2	-2.1	67	2	8	22	45	0.02	-0.73	0.02	0.2	1	14	11	5	n.	John W. Henry.
Blackfoot	Beaver			35.8		64	2	13	21	40	0.40		0.26	2.5	5	20	4	6	s.	L. Manners.
Blackfoot	Beaver	5,070	10								0.26	-0.58	0.11	1.5	3					Geo. Roberts, Sr.
Blackfoot	Grand	4,000	18	40.3	-0.7	68	3	16	13	40	0.27	-0.30	0.20	T.	2	16</				

TOTAL PRECIPITATION, NOVEMBER, 1907



SCALE OF SHADES IN INCHES



† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR DECEMBER, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF U. S. WEATHER BUREAU.

BY

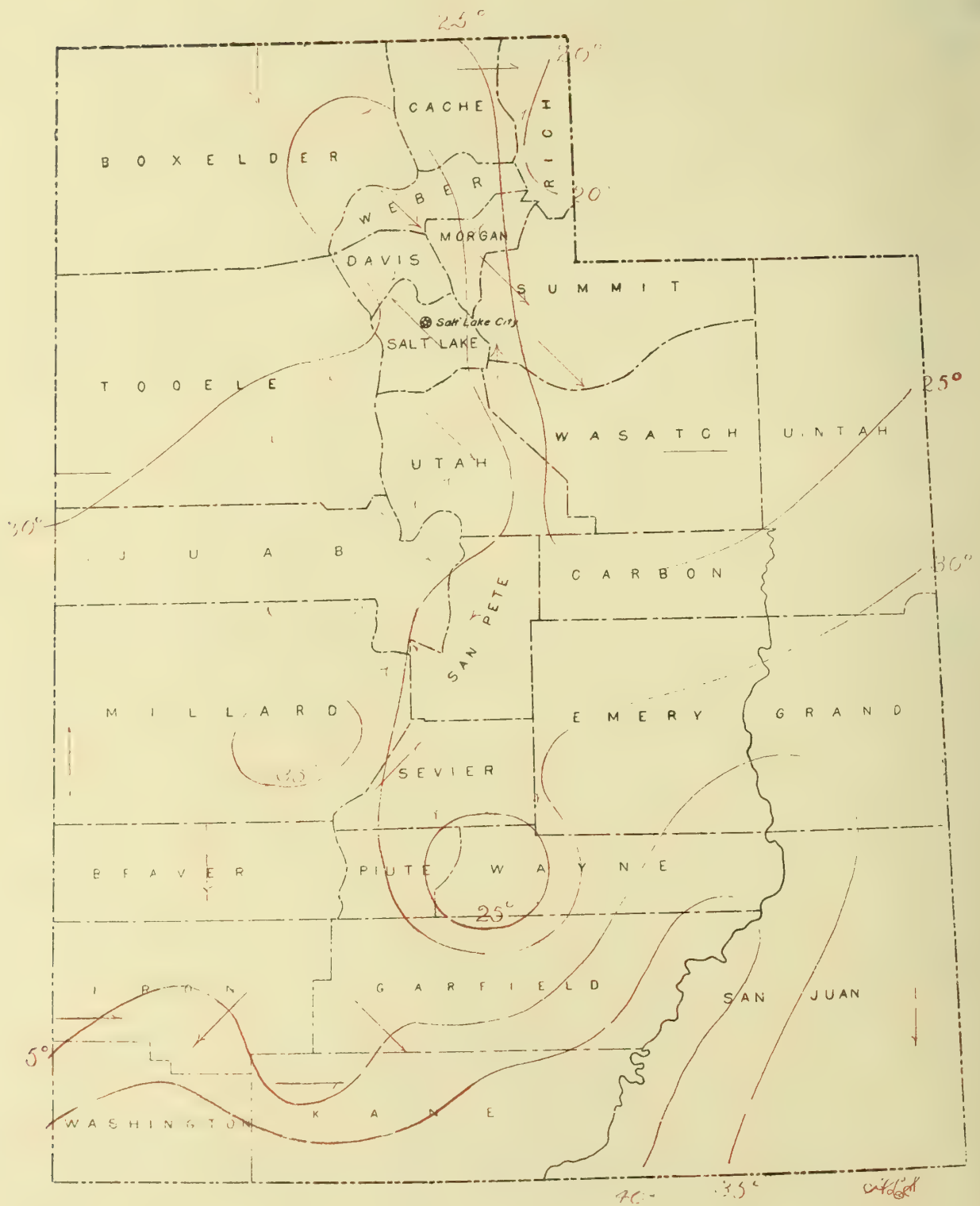
R. J. HYATT,

SECTION DIRECTOR.



SALT LAKE CITY, UTAH:
WEATHER BUREAU OFFICE.
FEBRUARY 20, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, DECEMBER, 1907.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

No. IX. SALT LAKE CITY, UTAH, DECEMBER, 1907. No. 12.

GENERAL SUMMARY.

The mean temperature was above normal over all portions of the State, the excess being greatest over the middle, and least over the northern section. Mild temperatures prevailed over most localities from the 1st to the 7th, and from the 22d to the 27th, the remaining portions of the month being much cooler and generally below the normal. The monthly minimum temperature occurred at most stations on the 19th, 29th or 30th.

The precipitation was slightly above normal over the southern section, and gradually increased in amount to the northward over the State, where, over the northern section it became nearly 100 per cent in excess of the normal amount for that section. The snowfall during the month extended over the entire State, altho it was quite light in the extreme southwest portion. The fall over the northern portion was moderately heavy. Sleet and hail were reported from some localities, but were insufficient in quantity to cause any serious damage.

The cloudiness over the northern section was excessive, but gradually lessened toward the southward, where, over the southern section, nearly the normal amount of sunshine prevailed during the month.

High winds occurred on several dates during the month.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 52 stations, was 30.6°, which was 3.8° above the normal.

The highest local monthly mean was 43.3° at St. George, and the lowest was 18.2° at Woodruff.

The highest temperature recorded was 68° at Experiment Farm, near St. George, on the 8th, and the lowest, -22°, at Woodruff, on the 30th, giving a range for the section of 90°.

The greatest local monthly range was 76° at Thistle, and the least, 37°, at Oak City.

PRECIPITATION.

The average precipitation, determined from the reports of 67 stations, was 1.58 inches, which was 0.72 inch above the normal for the State.

The greatest monthly amount was 3.90 inches at Park City, and the least, 0.08 inch, at Tropic.

The greatest amount of precipitation in any 24 consecutive hours was 1.50 inches at Woodruff on the 11th.

There was an average of 6 days with 0.01 inch or more of precipitation; 8 over the northern, 6 over the middle, and 3 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 3641; at Modena, 6779; at Grand Junction, Colo., 2849; and at Pocatello, Idaho, 7810.

The maximum velocity at Salt Lake City was 39 miles per hour from the northwest on the 26th; at Modena, 46 miles from the southwest on the 7th; at Grand Junction, Colo., 18 miles from the northwest on the 8th; and at Pocatello, Idaho, 36 miles from the southwest on the 22d.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 9; partly cloudy days, 8; cloudy days, 14.

Determined from the records of automatic sunshine recorders, Salt Lake City had 40 per cent; Modena 60 per cent; Grand Junction, Colo., 51 per cent; and Pocatello, Idaho, 50 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 71 per cent, the lowest observed reading being 21 per cent on the 4th; at Modena 73 per cent, the lowest observed reading being 45 per cent on the 3rd; at Grand Junction, Colo., 63 per cent, the lowest observed reading being 26 per cent on the 5th; and at Pocatello, Idaho, 75 per cent, the lowest observed reading being 16 per cent on the 4th.

MISCELLANEOUS PHENOMENA.

Haze—Randolph, 17-20, 28.

Thunderstorms—Enterprise (near), 28.

Halo, solar—Henefer, 12; Modena, 19; Mt. Nebo, 21.

Halo, lunar—Modena, 14, 25, 26; Nephi (near), 15; Salt Lake City, 15; Theodore, 9; Tropic, 23.

Corona, lunar—Government Creek, 9, 12, 15, 17-19; Ogden No. 2, 14.

Fog—Ibapah (near), 11-13, 17-20; Nephi (near), 19; Provo, 28.

Hail—Cedar City, 28; Enterprise (near), 28; Government Creek, 8, 13; Henefer, 13; Morgan, 27; Salt Lake City, 13.

Sleet—Cedar City, 28; Deseret, 11, 28; Government Creek, 7; Grayson, 28; Heber, 8, 13, 26; Henefer, 8, 10, 13; Levan, 7; Marion, 7, 13, 22, 23; Meadowville, 13, 22, 24, 25; Nephi (near), 8; Payson, 11; Provo, 23.

High Wind—Deseret, 5-7, 11, 13, 26, 30; Emery, 22; Garrison, 3-7, 10, 30; Government Creek, 4; Henefer, 26; Hite, 8, 13; Levan, 27; Marion, 11, 23, 30; Meadowville, 23, 24, 26; Modena, 5, 7, 10, 11, 13, 20, 26, 28, 30, 31; Nephi (near), 26; Park City, 8, 11, 13, 23; Pinto, 26; Saltair Beach, 26; Salt Lake City, 8, 13, 26; Scipio, 26; Theodore, 8, 11, 12, 14, 23, 24, 29; Thistle, 10; Tropic, 11.

ERRATUM FOR NOVEMBER.

Page 85: Farmington—Total snowfall, recorded as 4.5 inches, should be 5.8 inches.

COMPARATIVE STATE DATA FOR DECEMBER.

Year.	Temperature.			Average Precipitation.
	Mean.	Highest.	Lowest.	
1871	26.0	71	14	1.42
1872	25.0	66	-19	1.27
1873	31.1	70	-19	1.30
1874	26.3	64	17	1.94
1875	21.0	64	24	0.78
1876	31.0	66	-3	0.46
1877	22.7	68	-19	1.16
1878	23.1	72	-17	0.63
1879	25.2	74	-26	0.95
1880	30.6	68	-27	0.14
1881	29.0	71	-18	0.81
1882	27.0	66	-25	0.89
1883	26.4	76	-26	0.37
1884	28.8	81	-25	0.74
1885	22.8	63	-32	0.62
1886	33.3	76	-12	1.63
1887	30.6	68	-22	1.58
1888				

LATE REPORTS FOR NOVEMBER.

Garrison—Mean temperature, 37.4°; highest, 69° on the 9th; lowest, 9° on the 19th; greatest daily range, 52°; total precipitation, 0.49 inch; greatest in 24 hours, 0.49 inch; number of rainy days, 1; clear, 25; partly cloudy, 1; cloudy, 4; prevailing wind direction, south.

Ogden, No. 2—Mean temperature, 40.1°; total precipitation, 0.24 inch; greatest in 24 hours, 0.24 inch; total snowfall, 3.5 inches; number of rainy days, 1; clear, 18; partly cloudy, none; cloudy, 12; prevailing wind direction, east.

WATER STAGES.

The level of Great Salt Lake on December 1st was 3.0 feet above zero; on December 15th, 3.1 above, and on January 1st, 1908, 3.2 feet above.

OBSERVERS' REMARKS.

Alpine. The winter has been mild. The amount of snow in the mountains is comparatively light and is drifted but little. T. B. Whitby.

Deseret. December has been quite cloudy but not as cold as usual. S. W. Western.

Emery. The weather continued dry thruout the month. H. C. Wickman.

Enterprise. The weather was dry and cold during the month. John Day.

Government Creek. December was a very pleasant winter month with but little snowfall. Walter James.

Huntsville. With the exception of the first week, the month has been unusually cloudy and quite stormy. Lars Petersen.

Meadowville. The month was very blustery, with a few very cold nights. J. S. Moffat.

Morgan. The month was unusually cloudy with an excess of precipitation. T. R. G. Welch.

Parowan. The month was mild, the minimum temperature being 10° above zero. Alex Matheson.

Ranch. The month was stormy but no high winds occurred. The snow was quite deep in the forests. J. W. Seaman.

Depth of Snow in the Mountains at the Close of December, 1907.

The snowfall for the month of December was unevenly distributed thruout the State, the largest amount being over the northern-central portion, and the smallest over the extreme southern counties. The depth of snow on the ground at the end of the month averaged one to seven inches in the valley and one to four feet in the higher altitudes. The supply of snow in the mountains was in good condition generally, being well drifted and packed. The amount of snowfall for the month was about the average with few exceptions. The prospective water supply was very good for irrigation purposes for the next season. The stage of water in the lakes and rivers was above the average, and the ground was well saturated with moisture from rain and melted snow.

GREAT SALT LAKE WATERSHED.

Kelton, The snow was solid and well drifted. Snowville, The snow was solid. Newton, The snow was well packed in the hills. Millville, The snow was loose and not drifted. Woodruff, The snow was packed and well drifted. Randolph, The snow was very light and well packed. It is believed there is a good supply in the mountains. Laketown, The snow in the mountains was fairly well drifted but not well packed, as there was no thawing weather. Meadowville, The snow was well drifted and very solid. Considerable soft snow fell which caused it to be well packed. Ogden, The snow was very loose and wet, and melted considerably. Owing to light winds it is not drifted well. Morgan, Owing to a warm rain during the latter part of the month, the snow became well packed in the mountains. Clearfield, The snow was well drifted and well packed. Rockport, The snow was not solid and drifted. Hunter, The snow was very loose and poorly packed. Tooele, The snow in the mountains was not drifted, but well packed. Government Creek, The snowfall was very light and drifted but little. Lake Shore, The snow is well packed. Springville, The snow was well drifted and packed. Provo, The snow was fairly well packed and drifted. Heber, The snow was light and drifted but little. It had not packed much by the close of the month. Theodore, The snow was fairly well packed.

SEVIER LAKE WATERSHED.

Levan, The snow, when falling, was very wet, hence it soon became solid but not drifted. Deseret, From local indication the snow in the mountains was well packed. Fillmore, The snow was drifted and well packed in the mountains. Seipie, The snow was light and not well packed. Richfield, The snow was well packed, as the early storms were mixed with considerable rain and sleet. Annabella, The snow was not drifted but very well packed. Mirysvale, The snow on the higher range was well drifted, and was packed solid; on the lower ranges it was more loose and soft. Parowan, There has been very little wind, and the snow is quite evenly distributed. Modena, The snow in the mountains was confined to localities. Owing to freezing and thawing weather, it is well packed.

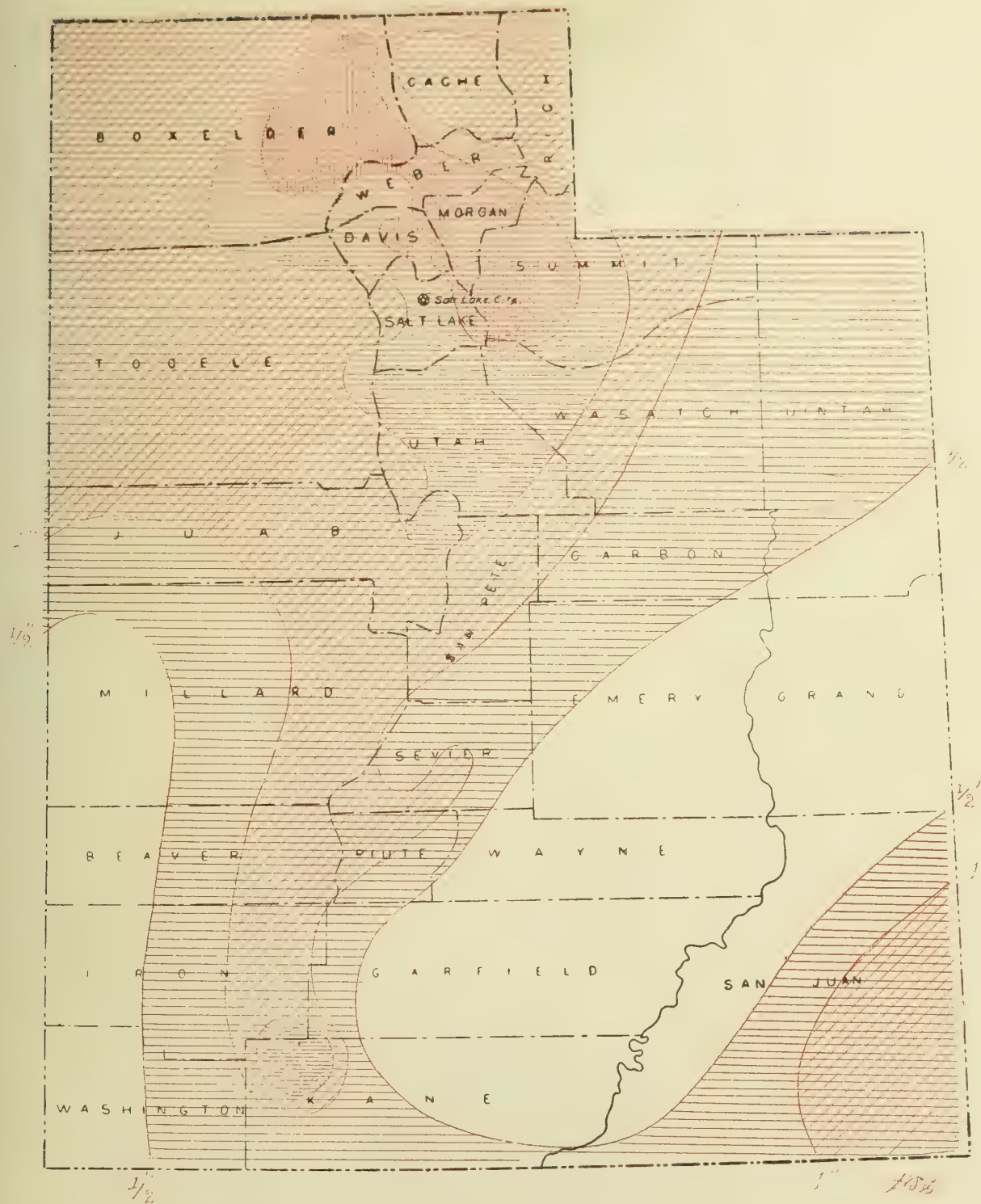
GREEN AND COLORADO RIVERS WATERSHED.

Huntington, The snow was drifted and well packed. Emery, The snowfall was very light, and only a little remains in patches. Lawrence, The snowfall in the mountains was very light. Richardson, The snow was drifted and packed solid. Loa, The snow was drifted but remained loose. Lyman, The snow in the mountains was reported as well drifted. Tropic, The snowfall has been very light to date. Escalante, The snow was very light and fluffy. St. George, There was very little snow in the mountains, and none in the hills. Springdale, The snow was quite solid. Ranch, The snow was very light and neither packed nor drifted. Verdure, The snow began falling early in the season and was well packed.

CLIMATOLOGICAL DATA, DECEMBER, 1907.

		Temperature in degrees Fahrenheit										Precipitation in inches					Sky					Observer
Stations.	Counties.	Elevation, feet.	Length of record, years.	Mean.	Departure from the normal.	Highest.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall accumulated.	Days with snow or ice.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	Observer.			
NORTHERN.																						
Alpine	Utah	4,800	11							2.63	1.65	1.42		0					T. B. Whitby			
Castle Rock	Summit		3																David Moon			
Carmine	Boxelder	4,240	37	31.1	2.3	53	7.2	8	36	3.29	1.80	1.34	14.0	9	1	10	20	SW.	Agent So. Pacific R. R.			
Farmington	Davis	4,207	7	33.5	3.1	51	26	10	21	4.48	1.97	0.96	21.6	9	8	10	13	NE.	Charles Boylin.			
El Luchas	Uinta	5,080	1	22.6	3.3	49	20	9	30	0.54	+0.04	0.30	4.8	3	19	3	9		Post Surgeon.			
Granitsville (near)	Tooele		1							1.28		0.35		5					A. J. Fraser.			
Hatch	Wasatch	5,060	14	26.2	4.0	55	4	15	30	2.71	1.10	0.60		11	3	7	21	S.	John Crook.			
Hemmer	Summit	5,301	8	24.7	1.7	55	1	18	30	4.7	2.58	1.10	24.5	14	7	9	15	NW.	William Brewer.			
Huntsville	Weber	5,100	17							3.60	+2.00	0.70	36.0	8	4	5	22		Lars Peterson.			
Kedron	Boxelder	4,230	29	26.0	1.8	46	23	2	17	3.2	+0.81	0.50	12.0	5	3	6	22		Agent So. Pacific R. R.			
Ketchikan	CACHE	4,507	10	28.5	3.2	49	20	0	18	2.1	+0.48	0.75	6.5	4					Agricultural College.			
Legion	Boxelder		2																C. J. Burke.			
Levan	Summit		2							3.51		0.85	26.0	13	3	3	25	NW.	J. Woolstenhulme.			
Mandowville	Rich.	6,200	8	25.0	0.2	43	26	2	30	2.21	1.30	0.95	14.5	8	8	2	21	W.	J. S. Moffat.			
Meadowville	CACHE	4,848	12							1.51	+0.58	0.51		13					Fred Yates.			
Morgan	Morgan	5,080	4							3.58	1.15	0.72	10.8	9	6	4	21	SW.	T. R. G. Welch.			
Orden No. 1	Weber	4,310	0	31.6	3.5	50	4	7	21	2.24	0.81	0.72	10.8	9	6	4	21	NW.	Enoch Farr.			
Orden No. 2	Weber	4,310	37	32.6	1.2					2.24	+0.62	1.01	8.0	8	9	0	22	E.	W. H. Chevers.			
Park City	Summit	7,800	10	25.2	2.9	48	3	0	19	3.90	2.37	1.20		7	11	11	9		F. W. Jones.			
Prairie City	Boxelder																		F. C. Houghton.			
Randolph	Rich.		2							1.32		0.90	6.0	5	10	10	11	SW.	Wm. Rex.			
Salt Lake City	Salt Lake	4,366	34	27.8		52	26	6	30	2.7	0.47	13.0		7					E. J. Bench.			
Silver Lake	Salt Lake		0		2.6	50	26	15	29	3.1	0.88	0.78	15.5	14	4	9	18	SE.	Section Center.			
Snowville	Boxelder	4,360	17	26.4	1.0	54	5	8	13	4.1	0.89	0.45		13	3	10	18	N.	N. J. Ferhaff.			
Strawberry Valley	Wasatch		1																Joseph Robbins.			
Thiodelph	Wasatch	5,507	1	25.2		50	25	7	30	2.5	0.58	0.23	5.8	6	9	12	10	W.	S. A. Chivers.			
Tooele	Tooele	4,900	11	33.4	3.7	57	4	11	30	3.5	1.10	0.69		7	10	4	17	S.	M. M. Smith.			
Vernal (near)	Uinta		12																I. J. Elkington.			
Woodruff	Rich.	6,500	10	18.2	1.6	47	22	30	46	1.80	-1.02	1.50	0.0	3					Joab Collier.			
Averages				27.8	1.4					2.30	1.10		14.9	8	7	7	17	SW.	C. G. Youngberg.			
MIDDLE.																						
Annabella (near)	Sevier		1							0.09		0.45	25.0	5					J. W. Fairbanks.			
Black Rock	Millard	4,872	7									0.60	0.25		4	7	23	9				
Castle Dale	Emery	5,500	8	28.8	4.9	56	23	1	29	4.1	0.70	0.25		4	7	23	9		James Jeffs.			
Desert	Millard	4,541	13	30.6	5.6	57	2	6	30	4.6	0.79	+0.30	0.50	7.5	6	10	6	15	S.	S. W. Western.		
Dragon	Uinta																		H. J. Cooper.			
Emery	Emery	6,260	7	30.3	4.2	55	5	30	44	0.20	0.10	0.20	2.0	1	4	2	25	N.	H. C. Wickman.			
Fillmore	Millard	5,100	17	35.6	6.0	63	4	12	30	4.3	+0.81	0.50		9					J. J. Starley.			
Garrison	Millard		4	33.6		67	25	8	29	4.7	0.20	0.20		1	20	1	7	S.	E. M. Smith.			
Government Creek	Tooele	5,277	7	31.7	3.7	53	4	9	19	3.4	1.72	1.09	12.0	7	5	16	10	S.	Walter James.			
Indian River	Emery	4,080	10	30.9	5.9	51	7	7	10	3.2	+0.14	0.20	2.5	2	20	10	1		J. D. Hitch.			
Isipah (near)	Tooele	7,500	1	27.2		47	10	5	14	2.8	1.68	0.00	10.0	5	13	8	10	W.	Mrs. J. S. Lawton.			
Kahosh	Millard		0							2.00		0.66		7					Geo. Crane.			
Levan	Juab	5,010	17	30.5	5.6	55	4	3	30	3.9	+0.23	0.58	14.1	10	6	10	15	N.	William Brown.			
Manti	Sanpete	5,575	13							2.01		0.65	10.5	5	14	11	6	N.	Louis C. Kjar.			
Mt. Nebo	Utah	4,050	0	33.8	7.1	54	6	1	30	3.4	+0.83	0.65	10.5	5	14	11	6	N.	D. C. Walkey.			
Mt. Pleasant	Sanpete	5,859	15	28.5	1.5	58	5	1	30	3.8	+0.03	0.54		9	9	5	13	NE.	Miss Olive E. Peck.			
Nephi	Juab		2							1.31		0.75	11.0	8	9	14	8	NW.	A. Madsen.			
Nephi (near)	Juab		1							1.97		0.65	15.5	7	5	6	20	SW.	S. R. Boswell.			
Park City	Millard		2	31.4		52	4	15	22	3.2	1.51	0.76		4	13	9	9	SW.	J. Finlinson.			
Payson	Utah	4,637	2							2.19		0.61	17.0	10	3	7	21	SW.	D. L. Coombs.			
Provo	Utah	4,532	15	32.7	4.0	52	4	10	30	3.4	1.19	0.50	16.5	11	8	14	9	NW.	B. Y. University.			
Richfield	Sevier	5,350	17	30.0	1.8	57	1	1	29	5.2	0.65	0.50	6.5	2	12	0	19	SW.	J. J. Jensen.			
Sepio	Millard	5,260	12	33.5	8.1	61	4	10	30	5.5	2.47	1.58	6.0	9	12	0	10	SW.	Thomas Memmott.			
Soldier Summit	Utah	7,474	15	24.3	7.1	60	7	12	30	5.0	+0.02	0.30	16.0	8	0	1	30		Agent Rio Grande R. R.			
Summerville	Carbon		2							0.80		0.30	8.0	4					Henry Cullum.			
Thistle	Utah	5,075	15	37.0	11.8	62	16	14	21	6.4	+1.27	1.00	27.0	9	13	5	13		Agt. Rio Grande W. R. R.			
Front Creek	Juab		2	31.1		60	26	5	21	4.6	0.95	0.35	8.5	4	8	15	8	S.	Mrs. W. A. Edwards.			
Tah Lake Pump Sta.	Utah		2							2.09		0.58		7					W. A. Knight.			
Vernon	Carbon	5,540	8	27.6	1.9	52	6	0	31	4.3	0.20	0.11	2.0	1					Melville Branch.			
Averages				31.0	5.7					1.41	0.55		11.9	6	10	8	13	SW.				
SOUTHERN.																						
Beaver	San Juan	4,800	7									0.60	8.0	4	8	10	8	SW.	Miss S. Hubert.			
Bedar City	San Juan		2	33.1		62	1	2	29	4.6	0.93								James Connell.			
Bozoto	Iron	4,500	3	35.8		59	4	11	18	3.4	0.93	0.37	15.0	4	7	15	9	NE.	J. M. Foster.			
Enterprise (near)	Garfield		6	32.3	10.4	58	1	1	11	4.5	0.40	0.40	4.0	1	14	6	11		Mrs. E. Clayton.			
Escalante	Washington		1								0.10	0.10	1.0	1	8	12	11	S.	John Day.			
Experiment Farm	Garfield	5,700	7	33.1		57	22	8	19	3.7	0.40			1	17	0	14		Geo. H. Barney.			
Fisco	Beaver		3	40.7		68	8	17	3	4.4					8	12	11		Joseph T. Atkins.			
Frayson	San Juan	7,318	13																			
Gile	San Juan		2	30.9		50	1	9	19	2.9	1.63	0.75	7.8	5	18	3	10	N.	Joseph A. Lyman.			
Graham	Garfield	3,000	8	39.6	4.1	48	17	18	19	3.4	0.30	0.21	0.26	1	2	14	11	6	J. P. Hite.			
Graham	Kane	4,925	7																E. M. Ford.			
Graham	San Juan	7,000	7																Mrs. G. W. Carpenter.			
Graham	Wayne	7,000	15	23.6	2.2	45	12	30	50	0.60	0.36	0.60	6.0	1					Michael Hansen.			
Graham	Plute	6,180	8																John W. Henry.			
Graham	Beaver		0	31.6		51	1	6	21	3.7	0.85	0.38		3	13	14	4	N.	L. Manners.			
Graham	Beaver	5,070	10								1.54	+0.97	0.71	15.4	5				Geo. Roberts, Sr.			
Graham	Grund	4,000	18																			

TOTAL PRECIPITATION, DECEMBER, 1907.



SCALE OF SHADES—IN INCHES.



Daily Precipitation, December, 1907.

Day of month.

Stations

NORTHERN

Alpine								1.02		.40		.15						.11		.40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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MIDDLE.

Annabella (near)	.22					.14			**				.45		**														.10	.08		0.99	
Black Rock																																	
Castle Dale										.10						.25	.10												.25			0.70	
Deseret										.10	**					.01		.06								**	.02	.10				0.70	
Dragon																																	
Emery																																0.20	
Fillmore				**	.15	.08		.60					.07		.05		.37										.01	.50	.03			1.80	
Garrison				**																						**			.20			0.20	
Government Creek					.20	.10		.55		.02			**		**		.25										.35	.25				1.52	
Green River								.20																				.10				0.30	
Hatch (near)				**	**	.12		.90	**	**			**	.09	.07	**	.50									**						1.68	
Kanosh					.03		.02	.66					.09	.09			.60											.37	.23			2.00	
Levan					.08		.18	.22					.05			.05	.15										.11	.39	.08			1.80	
Manti																																	
Mount Nebo					.28			.13		**							.18											.10	.65				1.34
Mount Pleasant						.54		.18	.07	**		**			.01	.03	.02	**												.38	.01	**	1.34
Nephi					.06	.44	.16	.75					.05				.12											.07	.36				2.01
Nephi (near)					.05	.65		.55					.05					.12	.22									.09		.36			1.27
Oak City					.20			.76									.10												.45				1.51
Payson						.25	.09	.36					.07	.07		.03	.19			.08								.61	.44	**			2.16
Provo				**	**	.50	.10	.30		**	.20	**			.10			.20	.10	**	.10					**	.30	.50	.20				2.60
Richfield				.15									.10		**														.50				0.65
Scipio				**	.11	.41	.09	.67		**								.20	.18							**	.08	.60	.13				2.47
Soldier Summit						.30	.30			.10			.10				.10											.10	.30	.30			1.60
Sunnyside					*	.30		.20									.10									*	.20						0.80
Thistle						.20	.20	.20		**	.20	**	.20	.10													.40	1.00	.20	**			2.70
Trout Creek								.35							**		.15			**								.20	.25				0.95
Utah Lake Pumping Station				.10				.58						*		.69			.07										*	.65			2.30
Wellington																												.20					0.20

SOUTHERN

North																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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U. S. DEPARTMENT OF AGRICULTURE.

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ANNUAL SUMMARY, 1907.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

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CHIEF U. S. WEATHER BUREAU.

BY

R. J. HYATT,

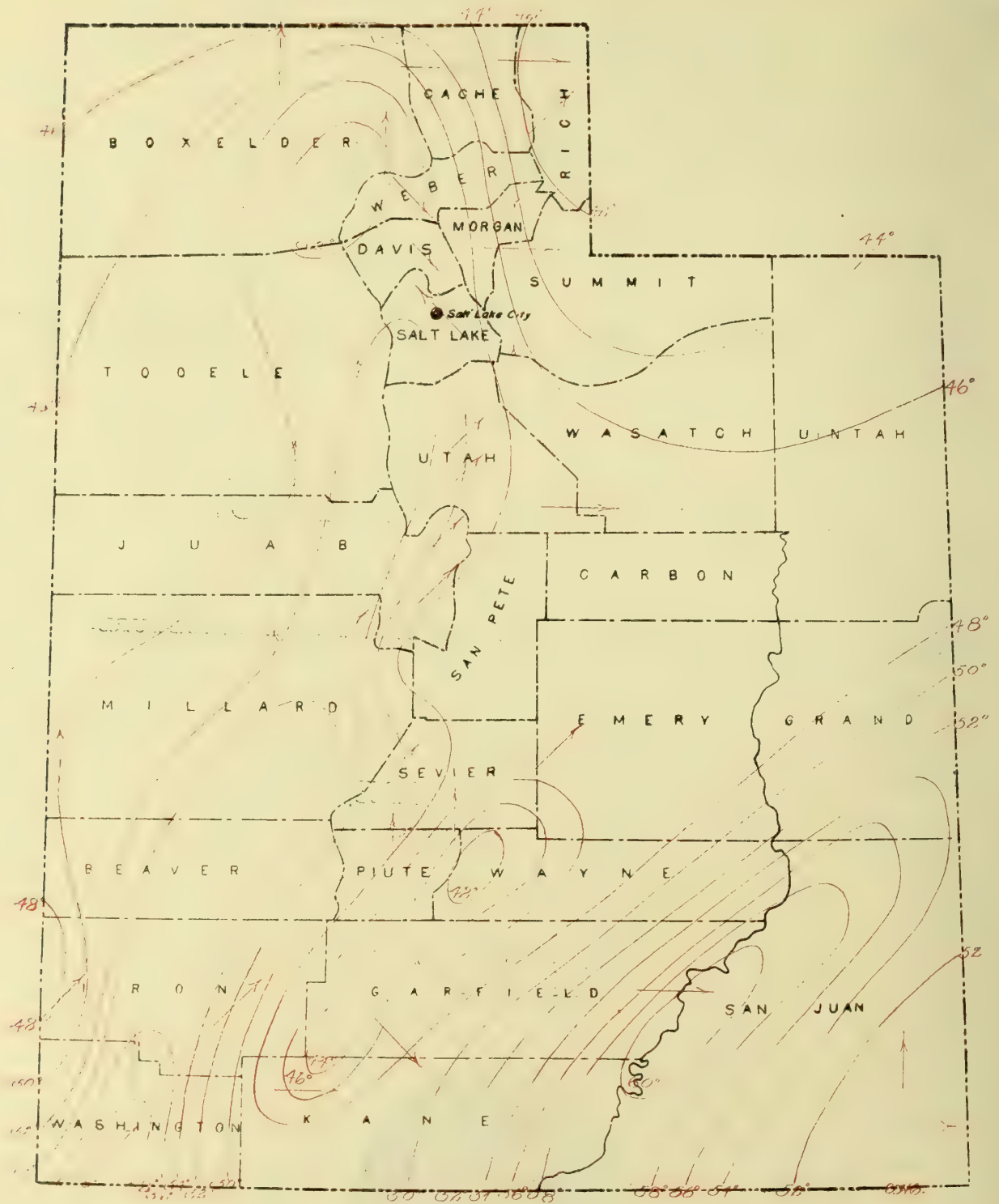
SECTION DIRECTOR.



SALT LAKE CITY, UTAH:
WEATHER BUREAU OFFICE.

MARCH 20, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, YEAR-1907.



U. S. DEPARTMENT OF AGRICULTURE,

THE WEATHER BY MONTHS.

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

Vol. IX. SALT LAKE, UTAH, ANNUAL SUMMARY, 1907. No. 16

GENERAL SUMMARY.

The year 1907 averaged 1.3° warmer than the normal mean temperature for the State, and it was the warmest year since 1901. The annual precipitation exceeded the normal amount by nearly 45 per cent, and with the exception of 1906, was greater than that of any previous year for which records are available. The weather during the winter months was above the average in temperature and amount of precipitation. During the first half of the summer, unusually cold and wet weather prevailed, which was followed by nearly normal conditions for the remainder of the year.

The distribution of temperature was such as to greatly modify the extreme weather conditions for the year. The first four months, together with October and December, were warm as compared with their respective normals, while from May to September, inclusive, and during the month of November, there was a general deficiency in temperature. Killing frosts occurred in most sections of the State until near the end of June, which was much later than the usual date. The first general killing frost in autumn occurred between the 17th and 21st of September. The highest temperature recorded during the year was 21° at Wellington, Carbon county, on August 22d, and the lowest, -22° at Woodruff, Rich county, on December 30th.

The precipitation was well distributed thruout the year, only the months of April, September and November having less than the normal amount. The greatest local amount recorded during the year was 29.20 inches at Huntsville, Weber county, and the east, 4.35 inches at Garrison, Millard county. The greatest local monthly rainfall was 10.25 inches at St. George, Washington county. This unusual amount fell within 24 hours on July 24th and 25th. The least local monthly rainfall was recorded at a number of stations in the dry regions of the State, where no precipitation occurred during one or more months of the year.

More than the average amount of snow fell during the winter months, and being in excellent condition for conservation at the opening of spring, an abundant supply of water for irrigation purposes was furnished thruout the season, and in many ravines and gulches in the higher altitudes, a considerable quantity of snow and ice still remained at the end of the summer.

The prevailing wind direction in April was west, and in November, north. The general direction during the remaining months and for the year was southwest.

JANUARY. The temperature for the month averaged above the normal over nearly all portions of the State. During the first half of the month the temperature was mild, much cloudiness prevailed, and storms were frequent. Generally clear and cool weather prevailed during the third week, but the closing days of the month were warm and cloudy. The precipitation was generally heavy except in a few isolated localities to the eastward of the mountain ranges in the middle and southern portions of the State.

FEBRUARY.—Exceptionally warm weather prevailed thruout the month, the mean temperature averaging 11.2° above the normal for the State. The first few days were generally wet, and the latter part was marked by frequent rains, the middle portion being clear and pleasant. The total precipitation was considerably in excess of the normal amount, but the snowfall was comparatively light over all sections. About the normal amount of sunshine prevailed.

MARCH.—The temperature was uniformly above the normal over all sections. Much stormy weather prevailed, especially over the northern section, where the precipitation was considerably in excess of the normal amount. A slight excess of precipitation occurred over the southern section, but the rainfall was deficient over the middle portion of the State.

APRIL.—Unseasonably warm weather prevailed during the first half of the month, which caused the snow in the mountains to melt rapidly, producing high waters in the streams and rivers. Abnormally cold weather was general during the latter half of the month, which checked the flood conditions and caused frequent damaging frosts. The precipitation was unevenly distributed, and was below the normal in amount, except over the middle section where there was a slight excess.

MAY.—The temperature was generally below the seasonal average over the entire State, the daily deficiencies being quite uniform for all sections. The first half of the month was cool and cloudy. From the 16th to the 22d, warm weather prevailed. The remainder of the month was cloudy and showery, accompanied by unseasonably cool weather. Damaging frosts occurred in some localities. The precipitation was much above the normal amount over nearly all portions of the State. Considerable snow fell in the mountains, quite a volume of which remained unmelted on account of the deficiency in temperature. Showers occurred with uniform frequency thruout the month, and thunderstorms were numerous, especially during the last decade.

JUNE.—The mean temperature for the State was the lowest of any June for which there is any record. The greatest deficiency of temperature occurred during the second and third decades, during which time frosts were frequent, being sufficient to cause considerable damage to vegetation in many localities on the 15th, 16th and 22d. The precipitation was more than three times the normal amount, and was greater than ever recorded for this month during the past 17 years, the period for which records have been kept. The greater part of the precipitation occurred during the first half of the month, abnormal cloudiness prevailing in consequence. During the latter half,

showers were less frequent, the month closing with warm weather and an abundance of sunshine.

JULY.—Nearly normal conditions of temperature and precipitation obtained during the month. Clear weather was general with the exception of the last week, when frequent thunderstorms occurred and considerable cloudiness prevailed. A severe thunderstorm, accompanied by hail, occurred on the 27th, causing extensive damage to electric light, telephone and telegraph lines, and small buildings. The precipitation was heaviest over the western half of the State.

AUGUST.—The mean temperature for the State was the lowest recorded during the past 16 years with one exception. The temperatures were highest in the southeastern and southwestern portions of the State, and lowest in the central mountainous regions. Showers and thunderstorms were frequent during the month. The precipitation was much above the normal amount and was well distributed. A severe thunderstorm, accompanied by high wind, visited the northern half of the State on the 3d. A wind velocity of 64 miles per hour was recorded at Salt Lake City. Considerable damage was done to small buildings, and to telegraph and telephone lines. The sunshine was somewhat below the normal amount, the deficiency occurring principally during the latter half of the month.

SEPTEMBER.—Nearly normal temperatures prevailed. During a cool period from the 18th to the 23d, heavy frosts were general, and killing frosts occurred in localities favorable to such conditions. Temperatures of 90°, or above, were recorded at a few places between the 10th and 13th. The precipitation was well distributed, but was only about one-half of the normal amount. High winds occurred on the 13th over portions of the State. Some slight damage from that cause was reported in the vicinity of Randolph. About the normal amount of sunshine prevailed during the month.

OCTOBER.—The mean temperature and total precipitation were above the normal over all sections of the State. No unusually warm or cold periods occurred. Frosts were general over the State, altho in some favored localities none occurred during the month. The precipitation was above the normal amount over all sections, being especially heavy over the southern portion, some stations having amounts in excess of three inches for the month. Snow in measurable quantities was reported from only two stations. An abundance of sunshine prevailed over the northern half, but was considerably deficient in amount over the remainder of the State.

NOVEMBER.—The mean temperature was nearly normal, except over the middle section, where a slight deficiency occurred. Mild temperatures and fair weather predominated during the first and last decades. The precipitation occurred mostly in the form of snow and was well distributed over the State. It was greatly deficient in amount, being only 35 per cent of the normal, nearly all of which fell during the period from the 15th to the 21st. An excess of sunshine prevailed during the month.

DECEMBER.—The mean temperature was above the normal over all sections. The precipitation was nearly twice the normal amount over the northern section, but decreased southward, the excess over the southern section being very slight. The snow-

fall was moderately heavy over the northern portion, but comparatively light in the central and southern districts. Near the average amount of sunshine prevailed over the southern half, but the amount over the northern half of the State was greatly deficient.

KILLING FROSTS

Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	Last in Autumn.
NORTHERN.					
Alpine.....	.....	Aug. 4	Manti.....	June 23*	.....
Corinne.....	May 13*	Nov. 1*	Mount Nebo.....	do 16	Oct. 2
Farmington.....	June 16*	Sept. 20*	Mount Pleasant.....	do 15*	do 2
Ft. Duchesne.....	do 23*	.....	Nephi.....	do 16	Nov. 1
Heber.....	do 23*	Aug. 11	Nephi, near.....	.....	Sept. 1
Henefer.....	do 23	Sept. 14	Oak City.....	June 15*	do 2
Huntsville.....	do 23	Aug. 11	Provo.....	do 16	do 2
Logan.....	May 12*	Nov. 4*	Richfield.....	do 16	do 1
Lucin.....	June 30*	July 19*	Scipio.....	do 17*	do 1
Marion.....	do 17	do 16	Soldier Summit.....	do 30*	Aug. 3
Meadowville.....	do 23	Aug. 11	Sunnyside.....	.....	Oct. 2
Morgan.....	do 23	Sept. 18	Thistle.....	June 28*	Sept. 1
Ogden No. 1.....	April 21*	Nov. 3*	Trout Creek.....	do 23*	do 1
Park City.....	June 23*	Aug. 12*	Wellington.....	.....	do 1
Randolph.....	.....	do 11			
Saltair Beach.....	April 21*	Sept. 20*	SOUTHERN.		
Salt Lake City	do 30*	Nov. 1	Aneth.....	May 13	.....
Silver Lake.....	.....	Sept. 29	Beaver.....	do 2*	Sept. 1
Snowville.....	June 23*	Aug. 18*	Cedar City.....	do 12	do 1
Theodore.....	do 16	Oct. 3	Coyote.....	.....	do 1
Tooele.....	do 15*	Nov. 3*	Enterprise, near.....	May 22	.....
Vernal, near.....	do 16	.....	Escalante.....	do 24*	Sept. 1
Woodruff.....	do 28*	Aug. 11	Experiment Farm.....	April 29*	Nov. 1
			Grayson.....	June 3*	Sept. 3
			Hite.....	Mar. 29*	Nov. 1
			Kanab.....	June 15	.....
			Loa.....	do 23*	Sept. 1
			Marysville, near.....	do 23	do 1
			Milford.....	.....	do 1
			Moab.....	June 17	do 2
			Modena.....	May 16	Nov. 1
			Parowan.....	June 16	Sept. 1
			Pinto.....	do 25*	.....
			Plateau.....	do 26*	Aug. 1
			Ranch.....	do 24*	July 1
			St. George.....	Mar. 31*	Nov. 1
			Springdale.....	.....	do 1
			Tropic.....	June 15*	Sept. 1

* No records of frost were kept, date of freezing temperature.

† Records of frost not kept previous to May 1st, date of freezing temperature.

CONDENSED SUMMARY FOR THE YEAR.

Stations.	Temperature.				Precipitation	
	Mean.	Dep.	High.	Low.	Aver.	Dep.
January.....	28.0	- 2.1	66	-20	2.30	+ 1.
February.....	40.4	+ 11.2	86	- 3	1.95	+ 0.1
March.....	42.4	+ 4.4	87	- 2	1.65	+ 0.
April.....	50.6	+ 1.8	95	2	0.96	+ 0.
May.....	52.7	+ 3.1	97	16	2.04	+ 0.3
June.....	58.8	+ 6.0	105	16	1.22	+ 0.3
July.....	70.1	+ 8.8	108	29	0.58	+ 0.3
August.....	67.7	+ 1.9	121	26	1.50	+ 0.3
September.....	59.4	+ 0.3	111	17	0.44	+ 0.4
October.....	52.5	+ 4.8	90	17	1.45	+ 0.5
November.....	37.4	+ 0.6	79	- 8	0.34	+ 0.6
December.....	30.6	+ 3.8	68	-22	1.58	+ 0.7
Annual.....	49.6	+ 1.3	121	-22	16.05	+ 4.5

CORRECTIONS FOR ANNUAL SUMMARY FOR YEAR 1906

Page 100: Modena—Frost, last in Spring should be May 30th instead of May 27th. Pages 101 and 102: Vernal—Mean temperature should be 44.7° instead of 45.1°. Pages 101 and 105: Rockville—Total precipitation should be 19.61 inches instead of 19.77 inches. Page 105: Rockville—Total precipitation for February should be 0.70 inch instead of 0.86 inch. Kelton—Total precipitation for February should be 0.36 inch instead of 0.16 inch. Corinne—Total precipitation should be 22.35 inches instead of 22.25 inches. Page 102: Castle Dale—Mean temperature for October should be 45.9° instead of 49.5°.

Precipitation (inches).

Rain gage not supplied by Weather Bureau.

Monthly and Annual Mean Temperatures for the Year 1907, with Departures from Normal.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
NORTHERN.																										
Corinne	24.0	-0.8	39.3	+9.4	41.3	+4.1	51.2	+0.7	54.6	-6.1	63.6	-7.5	77.0	-2.2	74.9	-0.4	66.6	+1.2	57.6	+5.9	41.4	+4.0	31.1	+2.3	52.0	+1.0
Farmington	29.4	+0.9	41.5	+10.6	43.2	+3.4	50.9	+2.9	55.0	-1.3	58.0	-8.0	72.1	-0.2	67.0	-4.7	57.9	-2.0	54.6	+4.7	39.4	+1.6	33.5	+3.1	50.2	+0.6
Ft. Duchesne	18.2	-6.5	28.1	+8.9	42.2	+6.5	52.8	+3.2	59.0	-6.6	69.6	-1.5	67.4	-2.3	63.0	-1.9	55.0	-0.3	50.6	+5.7	34.5	+1.6	26.2	+4.0	45.3	+1.9
Heber	24.6	-3.6	35.2	+12.8	38.0	+4.7	45.6	+1.5	50.4	-1.8	55.2	-4.3	65.8	-0.0	63.0	-1.9	55.0	-0.3	50.6	+5.7	34.5	+1.6	26.2	+4.0	45.3	+1.9
Hencefer	24.8	-1.9	36.6	+12.6	40.4	+5.5	45.2	+1.7	49.2	-2.7	54.6	-4.8	64.9	+0.6	62.4	-1.9	55.4	-1.6	50.6	+6.0	34.6	+1.1	24.7	+1.7	45.3	+1.7
Kelton																										
Logan	20.5	-4.0	37.6	+12.4	38.3	+3.6	47.0	-0.1	51.8	-3.2	60.5	-3.2	71.0	-0.1	67.8	-3.1	61.0	-0.3	55.0	+4.9	37.6	-0.5	28.5	+3.2	48.0	-0.8
Lucin																										
Meadowville	22.8	-0.1	29.2	+7.6	33.6	+5.0	41.4	+0.6	46.9	-2.5	51.8	-5.0	62.3	-2.2	60.4	-4.5	53.8	-0.2	46.1	+3.0	32.0	-2.5	25.0	+0.2	42.1	-0.1
Morgan	26.4		39.4		41.2		47.0		51.2		54.6		62.3		60.4		53.8		46.1		32.0		25.0		42.1	
Ogden No. 1	27.7	+0.4	41.2	+11.0	43.5	+3.7	52.6	+2.2	57.2	+0.1	60.8	-7.3	73.6	0.0	69.4	-3.6	62.4	+0.2	56.0	+5.7	39.6	-0.7	31.6	+3.5	51.3	+1.3
Ogden No. 2	24.6	-3.6	35.2	+12.8	38.0	+4.7	45.6	+1.5	50.4	-1.8	55.2	-4.3	65.8	-0.0	63.0	-1.9	55.0	-0.3	50.6	+5.7	34.5	+1.6	26.2	+4.0	45.3	+1.9
Park City	23.0	-2.7	31.8	+5.0			41.2	+1.7	45.4	-3.9	51.0	-7.7	64.0	-1.2	61.0	-2.0	54.8	+0.4	47.6	+1.6	31.2	-4.1	25.2	-2.9		
Saltair Beach	28.2		40.4		44.6		51.8		57.0		60.4		73.1		69.8		59.1		50.4		33.8		27.8		49.7	
Salt Lake City	30.6	+1.6	42.9	+10.0	44.5	+3.1	51.4	+1.3	55.6	-2.7	60.2	-8.1	74.6	-1.6	71.0	-4.5	63.4	-1.7	57.4	+5.2	41.4	+1.0	34.7	+2.6	52.3	+0.5
Silver Lake																										
Snowville	20.0	-4.2	37.4	+11.1	38.2	+2.3	44.4	-1.7	50.2	-4.4	54.7	-6.9	66.6	-2.4	64.2	-3.6	53.7	-4.7	51.6	+4.0	36.8	-0.2	26.4	+1.0	45.4	-0.8
Strawberry Valley																										
Theodore	19.0		34.0		40.6		48.2		51.2		57.9		69.2		66.8		58.6		54.0		33.4		25.2		46.5	
Tooele	34.6	+7.4	42.0	+10.1	42.6	+3.4	50.5	+1.8	54.3	-1.7	59.7	-7.1	72.8	-0.8	70.0	-3.6	62.8	-1.2	55.8	+5.6	39.8	-0.4	33.4	+3.7	51.5	+1.4
Vernal, near	20.2	+0.6	33.4	+10.7	43.6	+8.0	52.4	+4.0	56.1	-0.8	63.8	-3.2	74.0	+2.5												
Woodruff	18.2	+0.6	27.2	+9.2	34.0	+4.8	41.0	+1.6	45.4	-2.3	50.2	-5.4	61.2	+0.4	60.4	0.0	52.5	+0.9	47.8	+7.2	30.6	0.0	18.2	-1.6	40.6	+1.3
MIDDLE.																										
Black Rock	28.7		42.7	+13.3	44.2		50.8	+2.0	54.2	+1.5	60.7	+3.6	73.4	+4.6			58.6	+0.1	49.8	+2.5	36.4	-0.8	28.8	+4.9	48.0	+2.0
Castle Dale	21.4	-1.6	37.1	+10.9	43.8	+6.0	49.4	+4.2	52.8	-0.6	59.5	-4.6	71.2	+3.0	67.2	-0.4	58.6	+0.1	49.8	+2.5	36.4	-0.8	28.8	+4.9	48.0	+2.0
Deseret	29.7	-3.0	41.4	+11.4	40.0	+5.8	49.8	+1.9	53.4	-3.3	58.2	-7.6	72.3	+0.6	69.0	-2.3	60.0	-0.2	54.3	+5.2	35.8	-1.6	30.6	+5.6	50.0	+1.5
Dragon																										
Emery	25.5	+0.2	38.2	+10.3	43.6	+9.8	49.0	+6.8	51.9	+2.2	56.5	-2.3	67.5	+4.0	67.0	-1.8	56.6	+2.1	53.4	+9.2	41.4	+7.6	30.3	+4.2	48.4	+4.4
Fillmore	33.3	+3.7	45.6	+13.3	45.2	+2.7	54.1	+4.6	55.5	-2.0	62.9	-5.2	70.1	+1.1	72.2	-2.5	64.4	+1.9	57.4	+5.1	43.8	+2.2	35.6	+6.0	53.8	+2.6
Garrison	36.8		42.0		42.7		52.7		54.4		60.2		72.4		69.1		61.0		52.6		37.4		33.6		50.4	
Government Creek	26.7	-0.7	40.4	+10.0	40.9	+3.6	48.0	+1.4	51.6	-2.3	57.5	-6.9	72.6	+0.5	69.2	-3.6	60.6	-0.8	53.8	+4.3	37.2	-2.3	31.7	+3.7	49.2	+0.0
Green River			55.8	+25.1																						
Hatch, near	24.2		34.5		31.7		42.5		41.3		48.8		63.2		60.2		53.8		50.0		36.1		27.2		48.6	+1.0
Levan	27.8	+4.0	40.0	+12.6	41.8	+5.6	48.6	+2.2	51.6	-3.3	58.0	-6.1	70.6	-1.0	67.0	-3.3	59.0	-1.4	52.0	+4.7	36.1	-0.8	30.5	+5.6	48.6	+1.0
Manti	29.0	+3.8	40.6	+16.8	42.0	+4.2	48.0	+0.4	50.4	-7.0	57.6	-8.7	67.4	-3.5												
Mount Nebo	30.0	+3.5	41.4	+11.5	44.0	+4.6	51.8	+2.1	58.6	+2.6	63.1	-3.9	70.6	+3.5	71.3	-2.8	62.3	-0.5	44.0	+5.8	37.0		33.8	+7.1	51.2	
Mount Pleasant	29.0	+1.7	40.0	+10.3	41.4	+4.2	48.2	+1.0	51.2	-3.3	58.4	-6.4			71.5		63.0		54.0	+4.0	37.8	-1.6	28.5	-1.5	51.7	
Oak City	28.1		42.6		44.8		52.0		54.8		62.8		75.6						55.6		38.4	-1.6	31.4		51.7	
Provo	29.4	+2.8	41.1	+11.1	43.4	+3.7	51.6	+2.3	55.0	-2.7	59.8	-4.8	72.6	-0.2			62.8	+2.8	53.8	+5.3	37.6	-1.6	32.7	+4.0	50.8	+1.8
Richfield	35.2	+9.0	43.2	+11.8	46.0	+3.9	52.8	+0.3	55.6	-1.5	61.2	-2.9	72.3	+1.5	69.4	+2.0	61.4	+3.0	50.2	+2.5	33.1	-4.9	30.0	+1.8	50.9	+2.7
Scipio	28.4	+2.0	41.2	+11.0	41.8	+4.0	48.0	+1.2	51.6	-2.3	57.8	-6.6	69.4	-0.9	66.4	-2.8	58.7	-1.0	53.2	+5.8	30.7	-6.6	33.5	+8.1	48.4	+1.0
Soldier Summit					34.1	+5.7	34.9	+5.9	38.2	+9.4	43.2	+12.0	60.4	-1.8	56.4	-3.8	49.4	+1.6	47.6	+0.9	31.4	+2.6	24.3	+7.1		
Thistle	28.8	+3.8	40.4	+11.4	43.5	+6.2	48.8	+1.3	50.1	-4.8	58.0	-5.1			58.0		59.8	+1.6	54.0	+6.8	38.6	+1.9	37.0	+11.8		
Trout Creek	24.6		41.4		43.0		50.6		53.8		58.3		69.6		67.2		58.0		53.4		36.0		31.1		48.9	
Utah Lake Pmp. Station																										
Wellington					44.7	+7.2	52.2		54.2	-2.0					75.4	+6.5					33.0	-3.7	27.6	+5.7		
SOUTHERN.																										
Aneth	38.3	+8.4	44.4	+10.7	51.4	+6.1	57.0	+2.7	60.2	-2.3	70.5	-1.7	80.4	+2.0	77.6	+0.3	69.4	+2.6	64.1							
Beaver	42.2		48.2		40.8		54.0		52.6				74.2		69.9		56.8		51.2		38.2		33.1		51.5	
Cedar City	32.0		42.0		41.8		50.6		52.0		64.6				59.0		61.5		53.0		41.0		35.8			
Coyote															69.0				45.0		37.0	+3.6	32.3	+10.4		
Escalante	29.3	+4.1	41.3	+11.2	41.8		50.8		51.2	-6.0			69.6		66.6		59.2	-2.3	52.4	+1.0	39.0	-0.8	33.1		58.8	
Experiment Farm	40.2		48.2		51.3		58.6		62.6		70.0		79.8		79.0		68.0		62.4		45.4		40.7			
Frisko			41.5	+8.2	39.0	+0.6	45.8	-0.9																		
Grayson	33.4		42.2		44.4		52.7		51.6		61.2		72.3		68.7		62.0									
Hite	40.4	+5.2	51.4	+10.0	53.7	+3.3	61.8	+2.7	63.8	-5.2	72.4	-6.5	83.2													

Monthly Maximum Temperatures for the Year 1907, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
NORTHERN.																								
Albion	51	28	59	8	60	17	84	14	90	29	98	28	108	2	105	21	97	9	86	8	60	4	53	*2
Albion	48	*28	57	21	65	*18	75	13	84	20	89	28	96	12	92	6	85	6	75	12	60	6	51	26
Albion	46	13	57	26	75	20			75	19	92	28	96	*4	96	9					76	1	49	26
Albion	46	4	55	25	64	10	76	*12	80	*18	86	28	94	*23	99	13	86	12	81	5	63	2	55	4
Albion	50	29	58	25	60	18	76	13	82	30	85	28	92	27	91	6	86	11	75	5	67	6	55	4
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81	30							75	*7	60	9	46	23
Albion	41	29	51	*24	64	18	74	13	76	17	81													

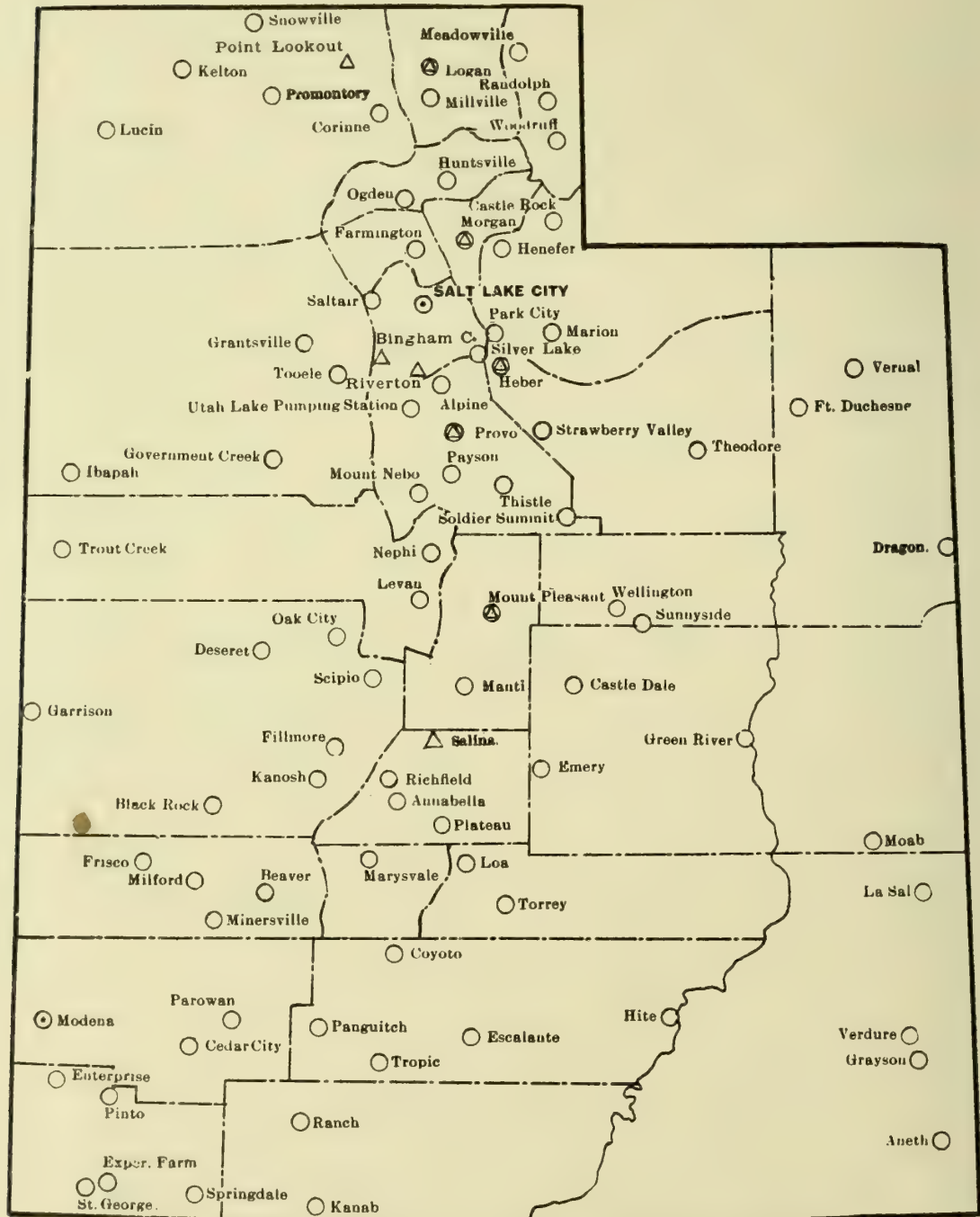
Monthly Minimum Temperatures for the Year 1907, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
NORTHERN.																								
Corinne	10	23	23	28	23	27	26	21	29	5	35	24	46	16	43	16	35	22	36	9	17	22	8	18
Farmington	4	23	25	28	23	27	28	*19	30	1	32	16	42	16	40	18	31	20	36	5	23	*13	10	21
Ft. Duchesne	15	23	5	8	15	*1			25	3	32	23	41	16	40	*11					7	13	9	30
Heber	10	23	10	*8	3	14	17	21	20	1	28	*15	35	16	30	11	26	*20	23	*29	8	22	15	30
Henefer	15	23	14	*8	11	*14	17	21	20	1	26	16	33	16	28	11	22	*20	24	*21	9	*12	18	30
Kelton																			33	4	11	22	2	*17
Logan	15	23	20	28	19	27	16	15	32	2	38	*13	45	16	42	11	39	*20	36	2	21	19	0	18
Lucin											16	16	29	*19	26	*11	17	19	19	29				
Meadowville	5	23	9	11	14	*15	15	20	25	*3	27	15	35	16	31	11	23	19	27	30	12	22	2	30
Morgan	11	*23	15	*8	15	*14	19	21	26	*13	28	16					26	*20	27	22	10	15		
Ogden No. 1	1	23	25	28	24	27	30	*20	36	12	38	15	47	15	45	19	41	19	37	15	21	19	7	21
Ogden No. 2																								
Park City	1	2	7	28			13	20	22	1	19	17	33	16	30	12	25	20	28	29	7	23	0	19
Saltair Beach	5	23	26	*7	23	14	31	30	36	1	38	16	53	16	50	11	32	*20	30	29	14	22	6	30
Salt Lake City	10	23	26	26	23	14	29	21	34	2	37	15	52	16	46	11	41	20	40	29	24	22	15	29
Silver Lake													32	16	28	11	23	20	23	30				
Snowville	18	16	12	11	1	26	16	*21	21	6	25	*15	34	*15	31	18	27	*20	26	30	8	20	8	19
Strawberry Valley					2	14																		
Theodore	10	23	10	28	17	1	19	20	27	*1	33	*14	44	16	41	31	32	20	32	3	9	13	7	30
Tooele	9	23	21	28	16	14	23	20	31	12	32	15	47	15	47	29	37	29	37	2	22	11	30	30
Vernal [near]	3	2	12	*12	18	15	27	21	31	3	38	16	52	30										
Woodruff	19	23	2	11	12	*2	14	*25	17	1	25	16	35	2	26	*11	19	*20	21	*10	1	19	22	30
MIDDLE.																								
Black Rock	6	2	20	8	14	13	21	*22	23	1	31	*15	45	*1										
Castle Dale	0	*7	8	16	13	14	13	21	25		31	16	44	16	43	31	26	22	20	30	12	*22	1	29
Deseret	4	2	16	28	15	14	15	21	22	1	22	24	43	16	38	11	26	22	20	25	30	*12	6	30
Dragon																								
Emery	1	2	20	*1	21	28	18	20	21	5	29	*1	35	20	41	*15	30	*24	30	*3	17	*14	5	30
Fillmore	7	2	14	28	20	*1	22	*20	32	*12	30	*15	44	16	40	11	31	20	33	*1	21	21	12	30
Garrison	5	22	14	28	10	27	19	22	24	14	27	15	40	17	34	27	25	20	30	*1	9	19	8	29
Government Creek	4	2	11	28	6	13	19	20	27	1	28	15	43	15	39	11	29	*19	31	3	16	24	9	19
Green River			40	*3																	15	24	7	19
Hatch [near]	6	2	7	28	5	26	13	20	22	*1	22	16	37	15	33	29	24	29	29					
Levan	4	2	11	28	13	14	21	20	27	1	29	15	42	16	40	11	33	20	29	29	13	22	3	30
Manti	5	20	18	28	14	14	18	20	26	*1	29	16	42	16										
Mount Nebo	7	20	21	28	15	14	28	*20	36	12	34	16	53	14	42	11	33	29	32	29	17	22	1	30
Mount Pleasant	4	1	19	28	13	13	18	19	28	*2	30	*14												
Oak City	2	2	20	28	14	13	21	21	28	1	29	15	45	*15	41	28	31	*29	24	27	19	22	15	22
Provo	2	2	24	11	13	14	24	21	28	1	32	15	45	16	40	10	32	21	32	*29	10	22	10	30
Richfield	12	*3	7	28	17	28	21	21	27	1	29	16	45	*1	40	10	30	19	18	30	5	21	1	25
Seipio	8	21	14	28	12	14	14	21	20	1	24	16	35	16	34	9	24	20	22	29	9	*12	10	30
Soldier Summit					10	28	2	19	18	*2	16	19	33	17	30	30	22	*20	20	*29	6	*18	12	30
Thistle	3	*19	18	7	6	13	15	20	23	2	28	*15					25	19	24	*27	8	24	14	21
Trout Creek	5	24	15	28	17	28	20	21	29	1	27	15	39	16	34	11	24	20	27	31	10	19	5	20
Utah Lake Pmp. Sta.																								
Wellington					14	29	18	22	21	1					33	9	28	20	26	1	9	*12	0	31
SOUTHERN.																								
Aneth	12	3	20	15	19	14	26	22	33	*3	43	16	45	17	50	30	35	23	40	*3				
Beaver	14	4	17	27	21	1	23	1	32	2							26	20	26	31	11	22	2	25
Cedar City	6	2	12	28	13	28	22	20	30	14	42	*12	54	17	37	29	32	19	32	*2	19	22	11	18
Coyote									40	*11	37	14			30	30	10	19	17	3	10	*20	1	11
Escalante	1	3	22	*8	15	1	22	21	28	14			42	18	40	29	29	30	28	29	15	*22	8	10
Experiment Farm	21	*2	22	9	23	*12	31	21	36	13	40	15	48	17	52	*10	36	30	37	31	19	23	17	
Frisco	5	2	18	28	18	*18	16	21																
Grayson	11	19	24	28	18	13	17	20	24	3	30	3	48	16	45	29	28	30	32	1	15	22	9	15
Hite	23	*25	20	8	29	14	36	*4	40	*8	48	9	57	17	55	1	47	*28	39	30	24	30	18	10
Kanab			11	28	9	13	17	24	21	1	34	13	40	*16										
La Sal	1	3	19	28	10	14																		
Low	0	*2	16	17	8	14	10	*20	19	1	23	15	37	*18	38	*11	22	*20	20	28	8	*18	12	30
Marysvale [near]	1	3	14	28	8	14	16	30	21	1	26	15	40	*16	37	11	25	20	24	29	8	22	6	21
Midford																	25	20	25	31	13	21	6	21
Moab	12	3	20	8	24	14	27	21	30	3	38	17	50	*17	49	11	34	20	31	30	16	13	12	18
Modena	8	2	20	8	10	28	22	30	26	1	32	13	44	11	41	31	26	20	20	20	13	22	11	18
Parowan	2	2	12	28	9	28	22	21	28	15	27	*15	42	*16	40	30	28	*19	28	*1	14	*21	10	10
Pinto	17	2	3	28	2	28			15	1	25	15	35	3										
Platons	7	20	13	28	2	14	10	21	16	1	20	16	33	16	31	*11	23	*23	27	22	6	21	6	14
Ranch	20	2	7	1	1	13	18	4	21	1	25	16	32	18	35	26	25	*28	23	1	11	22	2	30
St. George	22	2	27	9	26	*13	34	22	38	14	43	16	54	1	54	30	40	20	40	2	22	*22	20	25
Springdale			37	*2	34	13							54	1										

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
NORTHERN.																										
ac Rock	1.97	+0.67	3.06	+1.02	3.50	+1.62	2.10	-0.04	4.30	+2.03	1.77	+1.22			2.80	+1.82	0.40	-1.02	2.21	0.99	0.63	-0.73	2.63	+1.05		
Rock	1.02		3.60		2.14		1.05		3.01		1.20		0.20		1.40		0.00									
me	1.50	+0.19	1.36	+0.14	2.12	+0.77	1.26	+0.10	1.82	+0.54	2.10	+1.62	0.50	+0.06	1.31	+0.87	T.	-0.05	1.31	-0.37	0.21	-0.80	3.29	+1.80	16.78	+5.07
ington	3.43	+1.31	5.26	+1.91	3.75	+0.78	0.28	-2.19	3.02	+0.10	2.00	+1.71	0.4	-0.14	1.53	+1.07	0.10	-0.85	1.07	-0.14	0.58	-0.88	3.48	+1.97	24.34	+5.50
chesnee	0.50	-0.12	T.	-0.44	0.00	-0.66			1.02	+0.23	0.72	+0.49	0.95	+0.45	0.80	+0.10					0.23	-0.04	0.54	+0.04		
tsville (near)	1.45		0.84						1.71		1.35		0.66		1.06		0.24		0.96		0.55		1.28			
er	3.00	+1.03	3.96	+1.86	3.20	+1.07	1.32	+0.01	2.00	+0.41	1.47	+1.06	0.07	-0.74	0.87	+0.09	T.	-1.10	1.03	-0.21	0.33	-1.09	2.71	+1.19	20.05	+3.58
tsville	3.35	+1.04	5.12	+3.08	2.70	+0.69	2.36	+0.81	2.50	+0.84	1.48	+1.23	0.48	+0.03	2.43	+1.56	0.37	-0.63	1.05	-0.08	0.20	-1.48	3.96	+2.68	26.06	+9.37
on	4.31	+1.75	7.23	+4.07	4.08	+1.39	2.42	-0.57	1.75	-0.37	2.08	+1.61	0.11	-0.27	1.17	+0.50	0.18	-0.51	1.95	+0.36	0.32	-0.00	3.66	+2.00	29.20	+12.13
on	1.70	+1.10	0.66	+0.03	0.23	-0.28	T.	-0.82	3.00	+2.35	1.30	+1.00			0.10	-0.34	0.57	+0.14	T.	-0.32	1.50	+0.81				
on	4.85	+3.68	2.69	+1.51	3.54	+1.68	1.58	-0.21	2.80	+0.64	2.40	+1.84	0.00	-0.39	0.90	+0.38	0.12	-0.96	1.45	+0.34	0.13	-1.06	1.46	+0.48	21.96	+7.93
n									1.54		1.10		0.49		0.40		0.40		0.40							
on	3.89		2.81		3.62		1.55		4.28		1.93		0.37		1.01		0.42				0.73		3.51			
lowville	2.10	+1.30	6.40	+4.50	3.50	+2.03	2.75	+0.89	2.82	+1.14	1.49	+0.88	1.20	+0.56	1.55	+0.72	1.12	+0.10	0.10	-1.34			2.21	+1.30	26.24	+11.59
ille	3.68	+2.28	1.03	+0.40	3.15	+1.12	1.65	-0.32	2.78	+0.79	2.22	+1.64	0.06	-0.36	1.46	+0.79	0.35	-0.05	1.39	-0.07	0.35	-1.32	1.59	+0.58	20.31	+4.88
an	2.88		6.15		2.43		1.14		3.08		1.37		0.37		0.34		1.16		0.42				3.58			
n No. 1	4.30	+2.22	4.37	+2.51	3.50	+0.39	1.05	-0.59	1.89	+1.15	3.27	+2.86	0.23	-0.05	1.01	+0.41	0.02	-0.67	1.26	+0.24	0.48	-0.53	2.44	+0.81	24.22	+6.45
n No. 2	4.25		3.52	+1.98	2.53	+0.81	1.29	-0.11	0.83	-0.81	2.87		T.													

rain gage not supplied by Weather Bureau. * Incomplete.

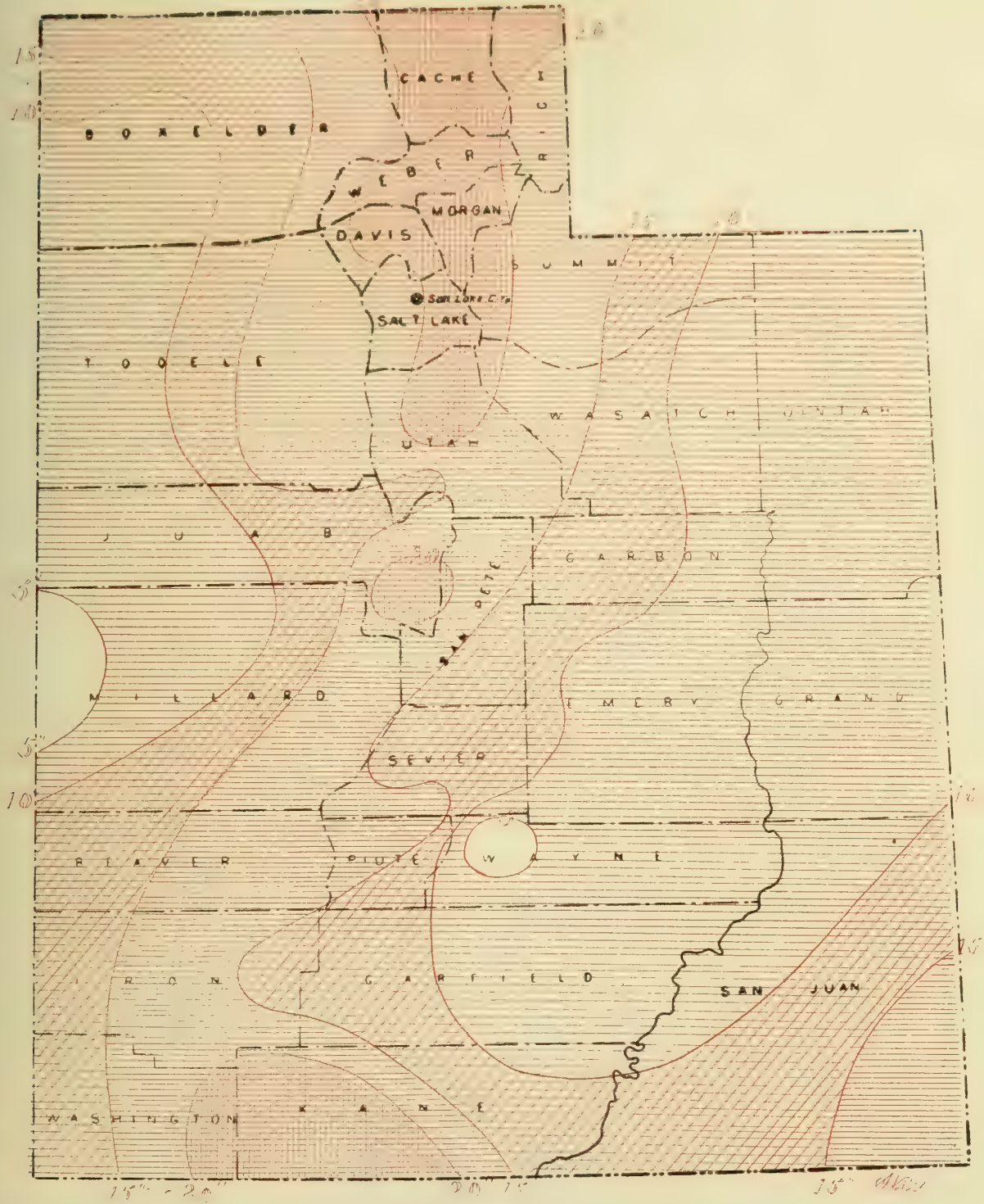
CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS.



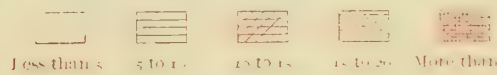
Key to Symbols.

- Meteorological observations. (Regular Weather Bureau stations.)
- Meteorological observations. (Sub stations.)
- △ Display or distribution of forecasts.

TOTAL PRECIPITATION YEAR 1907



SCALE OF SHADES IN INCHES



DISPLAYMEN.

Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.
Bingham Canyon *(40).....	Mgr. R. M. B. Telephone Co.	Mt. Pleasant.....	Thomas Braby.	Salina.....	Salina Mercantile Co.
Calders Park *(200).....	W. J. Butterworth, P. M.	Point Lookout.....	C. E. Foxley.	Utah Penitentiary.....	The Warden.
Heber *(190).....	C. H. Ohlweiler.	Provo *(321).....	Postmaster.		
Logan *(17).....	Experiment Farm.	Riverton *(100).....	A. E. Walker, P. M.		

Figures in parentheses indicate number of persons and postoffices supplied daily with the forecasts.

COOPERATIVE OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
NORTHERN.		MIDDLE.		SOUTHERN.	
Alpine.....	T. B. Whitby.	Annabella (near).....	J. W. Fairbanks.	Aneth.....	Miss S. Hubert.
Castle Rock.....	David Moore.	Black Rock.....	James Jeffs.	Beaver.....	James Connell.
Corinne.....	Agent So. Pacific R. R.	Castle Dale.....	S. W. Western.	Cedar City.....	J. M. Foster.
Farmington.....	Charles Boylin.	Deseret.....	H. J. Cooper.	Coyote.....	Mrs. E. Clayton.
Ft. Duchesne.....	Post Surgeon.	Dragon.....	H. C. Wickman.	Enterprise (near).....	John Day.
Grantsville (near).....	A. J. Fraser.	Emery.....	J. J. Starley.	Escalante.....	Geo. H. Barney.
Heber.....	John Crook.	Fillmore.....	E. M. Smith.	Experiment Farm.....	Joseph T. Atkins.
Henefer.....	William Brewer.	Garrison.....	Walter James.	Frisco.....	Joseph A. Lyman.
Huntsville.....	Lars Petersen.	Government Creek.....	J. D. Hitch.	Grayson.....	J. P. Hite.
Kelton.....	Agent So. Pacific R. R.	Green River.....	Mrs. J. S. Lawton.	Hite.....	E. M. Ford.
Logan.....	Agricultural College.	Ibapah (near).....	Geo. Crane.	Kanab.....	Mrs. G. W. Carpenter.
Lucin.....	C. J. Burke.	Kanosh.....	William Brown.	La Sal.....	Micheal Hansen.
Marion.....	J. Woolstenhulme.	Levan.....	Louis C. Kjar.	Loa.....	John W. Henry.
Meadowville.....	J. S. Moffat.	Manti.....	D. C. Walkey.	Marysvale (near).....	L. Manners.
Millville.....	Fred Yates.	Mount Nebo.....	Miss Olive E. Peck.	Milford.....	Geo. Roberts, Sr.
Morgan.....	T. R. G. Welch.	Mount Pleasant.....	A. Madsen.	Minersville.....	Henry Crouse.
Ogden No. 1.....	Enoch Farr.	Nephi.....	S. R. Boswell.	Moab.....	Alex. Matheson.
Ogden No. 2.....	W. H. Chevers.	Nephi (near).....	J. Finlinson.	Panguitch.....	J. H. Harrison.
Park City.....	F. W. Jones.	Oak City.....	D. L. Coombs.	Parowan.....	W. H. Schock.
Promontory.....	F. C. Houghton.	Payson.....	B. Y. University.	Pinto.....	J. W. Seaman.
Randolph.....	Wm. Rex.	Provo.....	J. J. Jensen.	Plateau.....	J. G. Bleak.
Saltair Beach.....	E. J. Bench.	Richfield.....	Thomas Memmott.	Ranch.....	Wm. Flanigan.
		Scipio.....	Agent Rio Grande R. R.	St. George.....	Joseph Forsyth.
Silver Lake.....	N. J. Ferheralf.	Soldier Summit.....	Henry Cullum.	Springdale.....	E. P. Bolton.
Snowville.....	Joseph Robbins.	Sunnyside.....	Mrs. W. A. Edwards.	Torrey.....	J. H. Barton.
Strawberry Valley.....	S. A. Chivens.	Thistle.....	W. A. Knight.	Tropic.....	
Theodore.....	M. M. Smith.	Trout Creek.....	Melville Branch.	Verdure.....	
Tooele.....	I. J. Elkington.	Utah Lake Pumping Station.....			
Vernal (near).....	Joab Collier.	Wellington.....			
Woodruff.....	C. G. Youngberg.				

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF U. S. WEATHER BUREAU.

BY

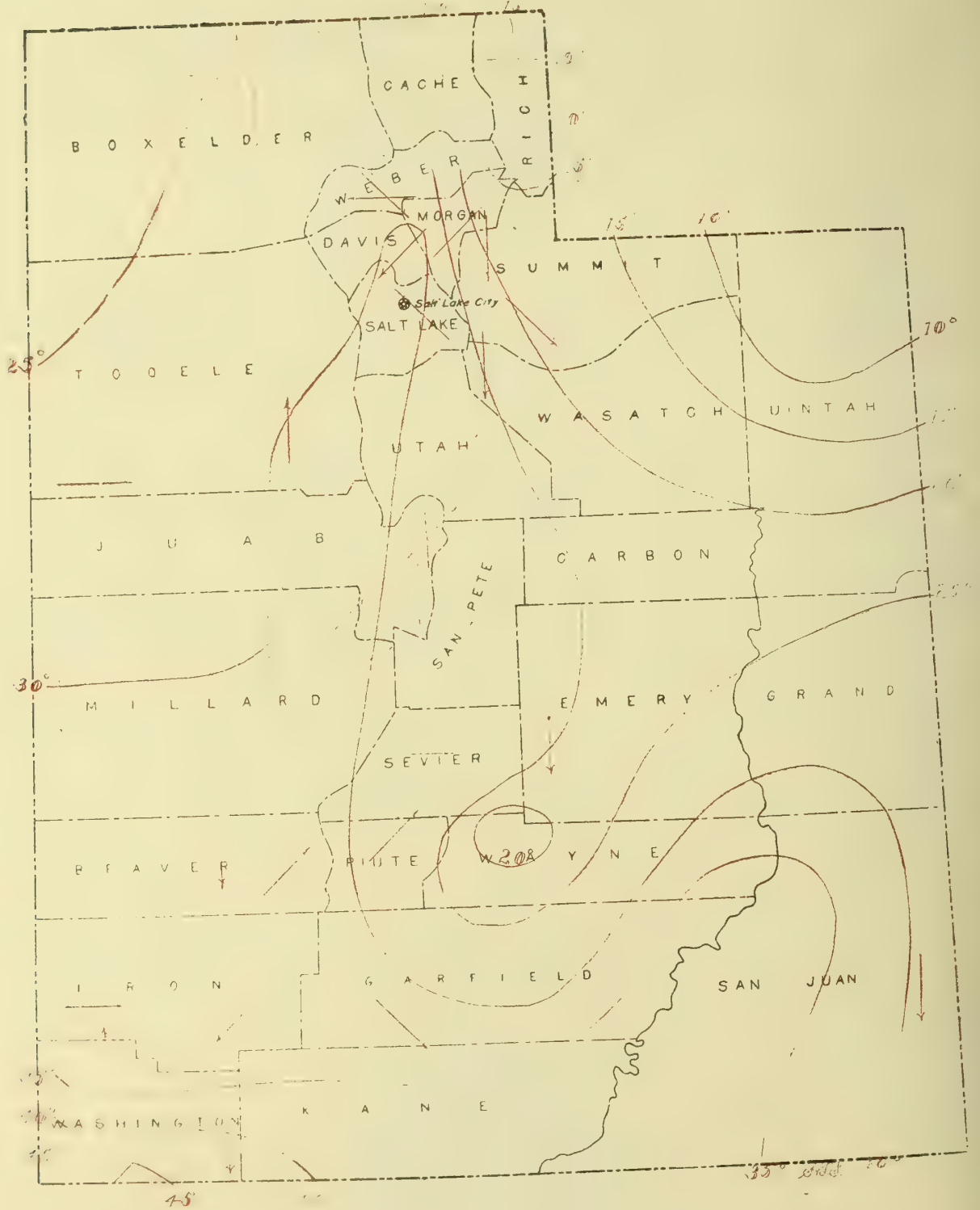
R. J. HYATT,

SECTION DIRECTOR.



SALT LAKE CITY, UTAH:
WEATHER BUREAU OFFICE.
MARCH 10, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, JANUARY, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, JANUARY, 1908. No. 1.

GENERAL SUMMARY.

The mean temperature for the middle and southern sections, and the western half of the northern section, was above the normal, but over the district lying to the eastward of the Wasatch mountains, in the northern section, it was decidedly below normal. The relatively low temperatures in the northwestern portion, combined with the higher temperatures recorded in the northwestern portion, gave for the entire northern section a mean temperature that was nearly normal. The minimum temperature for the month was recorded at most stations on the last day of the month.

The precipitation was generally deficient thruout the State, except over the southern section, and along the eastern border, where the amount was above the normal. The precipitation was mostly in the form of snow, and practically all of it fell during the last half of the month. The amount of snow on the ground at the close of the month was below the average amount for that date, over all sections, including both valleys and mountain districts.

Very little wind prevailed during the month, with the exception of the 9th, on which date high winds were reported from many stations thruout the State.

The amount of sunshine was nearly normal, being in excess during the first half, and generally deficient during the latter half of the month over all districts.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 51 stations, was 27.8° , which was 1.7° above the normal.

The highest local monthly mean was 44.6° at St. George, and the lowest was 9.7° at Ft. Duchesne.

The highest temperature recorded was 80° at Milford on the 9th, and the lowest, -22° at Woodruff, on the 31st, giving a range for the section of 102° .

The greatest local monthly range was 79° at Milford, and the least, 35° at Farmington, Saltair Beach and Salt Lake City.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 0.79 inch, which was 0.34 inch below the normal for the State.

The greatest monthly amount was 2.53 inches at Enterprise (near), and the least, 0.10 inch at Kelton and Emery.

The greatest amount of precipitation in any 24 consecutive hours was 1.83 inches at Enterprise (near), on the 26th.

There was an average of 4 days with 0.01 inch or more of precipitation; 5 over the northern, 3 over the middle, and 4 over the southern section.

WIND.

The prevailing direction for the section was north.

The total number of miles recorded at Salt Lake City was 2933; at Modena, 5625; at Grand Junction, Colo., 2568; and at Pocatello, Idaho, 5478.

The maximum velocity at Salt Lake City was 32 miles per hour from the north on the 9th; at Modena, 36 miles from the southwest on the 24th; at Grand Junction, Colo., 20 miles from the west on the 31st; and at Pocatello, Idaho, 40 miles from the southwest on the 9th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 14; partly cloudy days, 8; cloudy days, 9.

Determined from the records of automatic sunshine recorders, Salt Lake City had 52 per cent; Modena 57 per cent; Grand Junction, Colo., 66 per cent; and Pocatello, Idaho, 64 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 75 per cent, the lowest observed reading being 47 per cent on the 20th; at Modena, 80 per cent, the lowest observed reading being 19 per cent on the 9th; at Grand Junction, Colo., 71 per cent, the lowest observed reading being 30 per cent on the 15th; and at Pocatello, Idaho, 71 per cent, the lowest observed reading being 52 per cent on the 9th.

MISCELLANEOUS PHENOMENA.

Halo, solar—Henefer, 16.

Corona, lunar—Government Creek, 10, 12; Salt Lake City, 20.

Hail—Marysvale (near), 14, 30; Meadowville, 9; Morgan, 9; Nephi 9, 30; Ogden No. 2, 20.

Sleet—Castle Rock, 14; Deseret, 15; Grayson, 3; Henefer, 9; Marion, 14; Meadowville, 21; Payson, 25.

Halo, lunar—Henefer, 23; Hite, 13, 18; Levan, 12; Marysvale (near), 13, 18, 19; Modena, 10, 13, 18, 22; Nephi (near), 10, 12, 17; Tropic, 18.

High Wind—Castle Rock, 9; Deseret, 9, 30; Garrison, 9, 20; Grayson, 31; Hite, 9, 10; Ibapah (near), 24; Marion, 10, 24; Marysvale (near), 9; Meadowville, 6, 9; Modena, 9, 24, 30;

Nephi 9; Nephi (near), 29-31; Park City, 9, 30; Randolph, 9; Salt Lake City, 9, 30; Theodore, 9, 11, 27.

Fog—Castle Rock, 16; Deseret, 16, 21-23; Emery, 23-28; Ft. Duchesne, 26; Garrison, 21-23; Government Creek, 22-26; Huntsville, 16; Ibapah (near), 14, 15, 22, 24, 30; Levan, 26; Logan, 19-22; Marion, 22; Marysvale (near), 16, 27; Meadowville, 8, 16, 27; Modena, 22, 23, 25, 26; Ogden No. 2, 22; Pinto, 23, 26; Provo, 2, 4; Randolph, 1-3; Salt Lake City, 3, 4, 13, 22, 23, 27; Theodore, 25, 26, 28; Trout Creek, 3, 4, 7, 8, 17, 22, 23, 26, 28; Woodruff, 4.

COMPARATIVE STATE DATA FOR JANUARY.

Year.	Temperature.			Average Precipitation.
	Mean.	Highest.	Lowest.	
1891	24.4	68	-19	0.85
1892	26.0	71	-23	0.94
1893	21.3	63	24	1.13
1894	23.0	60	25	1.67
1895	28.4	66	-17	0.81
1896	26.1	68	34	1.53
1897	16.9	69	24	1.07
1898	27.9	70	-21	1.14
1899	31.6	70	-10	0.43
1900	28.2	64	26	0.60
1901	26.5	74	-38	0.71
1902	27.0	66	-21	1.40
1903	23.3	68	-23	0.83
1904	28.9	71	-22	0.86
1905	25.3	70	39	1.60
1906	28.0	66	-20	2.30
1907	27.8	80	22	0.79

WATER STAGES.

The level of Great Salt Lake on January 1st was 3.2 feet above zero; on January 15th, 3.3 feet above, and on February 1st, 3.4 feet above.

OBSERVERS' REMARKS.

Alpine—The weather during the month was very fine, and but little wind occurred. The amount of precipitation was comparatively light.—T. B. Whitby.

Castle Rock—The snowfall during the month was below the average amount, but it was drifted and well packed.—David Moore.

Corinne—Generally good weather prevailed during the forepart of the month, but it was considerably colder during the latter portion.—A. C. Murphy.

Deseret—The month has been quite cloudy and damp, but but not very cold. Very little sunshine prevailed. At the close of the month the ice measured six inches in thickness.—S. W. Western.

Emery—Fine weather prevailed thruout the month.—H. C. Wickman.

Government Creek—January was a very fine winter month. Walter James.

Heber—The month was generally cold, with temperature and precipitation below the normal.—John Crook.

Huntsville—The first part of the month was cold, but the latter part was generally mild.—Lars Petersen.

Depth of Snow in the Mountains at the Close of January, 1908.

The snowfall for the month of January was generally below the average for the month in the valleys, and also in the mountains thruout the State. Last year the amount of snowfall was much larger. The snow was moist and well packed, but much drifted owing to the absence of wind, except in a few places where the storms were accompanied by high wind. The streams, reservoirs and lakes were well supplied with water as a rule, and there was but little doubt that the prospective water supply would be ample for the coming season, altho no accurate estimate could be made at this time. The greatest amount of precipitation occurred over the southern portion of the State during this month.

GREEN AND COLORADO RIVERS WATERSHED.

Hyrum, snow is fairly well packed. Newton, the snowfall this month was very light. Millville, snowfall was generally light and not drifted. Logan, the snow in the mountains seems to be well packed. Meadowville, the snow is well drifted and solid. Randolph, very little snow fell during the month. Laketown, the snow in the mountains is well drifted but not very solid. West Portage, snow is drifted but very light. Ogden, snow is well packed but not drifted. Huntsville, snow below the average. Morgan, snow is drifted and packed. Farmington, the snow in the mountains is in good condition, well drifted and solid. Layton, the snow is well packed and drifted. Castle Rock, snow is packed but not drifted. Henefer, snow well packed but not drifted as much as usual. Marion, the snow is solid and drifted. Calder's Station, there is little snow but well packed. Hunter, the snow in the mountains is packed, altho a small amount. Saltair, snow is well drifted and above the average. Tooele, snowfall is below the average. Spanish Fork, the snow is solid but not drifted. Thistle, the snow is solid. Lake Shore, the snow in the mountains is in a fair, solid condition. Payson, the snow in the mountains is well drifted and packed. Heber, the snow is about the average.

SEVIER LAKE WATERSHED.

Levan, the snow in the mountains is well drifted and packed. Nephi, the snow is well drifted and packed solid. Nephi, the snow is well packed and drifted. Mount Pleasant, the snow is well drifted and packed solid. Sunnyside, the snow is well packed but below the average. Wellington, the snow is packed in the mountains. Fillmore, the snow is packed. Garrison, the snow is packed. Deseret, the snow is well packed and drifted. Scipio, the snow is solid. Annabella, the snow is packed but not drifted. Richfield, the snowfall has been very light. Beaver, the snow is solid and packed. Marysvale, snow much drifted and packed. Ranch, the snow is packed but not drifted. Parowan, the snow in the mountains is well drifted. Modena, the snowfall during the month was moderate and evenly distributed, no drifting occurred.

GREAT SALT LAKE WATERSHED.

Fort Duchesne, the snowfall for the month has been very light. Pinto, snowfall is very light. Hite, snow is packed and solid. Tropic, the snow in the mountains is packed. Logan, the snow is solid and packed. Richardson, the snow is solid. Ferron, snowfall is below the average. Lawrence, the snow is well drifted. Castle Dale, the snow is solid. Emery, snowfall is very light.

1

† Thermometers not supplied by Weather Bureau.

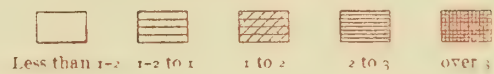
MAXIMUM AND MINIMUM TEMPERATURES, JANUARY, 1908.

STATIONS.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	MEAN.	
NORTHERN.																																	
Cortina	43.22	38.31	41.14	40.12	39.12	42.11	40.10	34.10	42.19	41.14	35.18	45.22	40.15	37.28	37.28	35.15	41.20	40.22	45.21	47.26	37.28	36.18	39.08	38.08	38.50	47.24	42.23	33.19	40.27	39.30	35.22	28.44	38.918.2
Farmington	40.16	40.17	35.16	36.17	35.16	36.15	32.16	34.10	42.19	41.14	35.18	45.22	38.17	46.31	47.31	34.25	37.21	40.22	45.23	47.26	37.28	36.18	39.08	38.08	38.50	47.24	42.23	33.19	40.27	39.30	35.22	28.44	38.918.2
Ft. Duchesne	40.16	40.17	35.16	36.17	35.16	36.15	32.16	34.10	42.19	41.14	35.18	45.22	38.17	46.31	47.31	34.25	37.21	40.22	45.23	47.26	37.28	36.18	39.08	38.08	38.50	47.24	42.23	33.19	40.27	39.30	35.22	28.44	38.918.2
Heber	32.03	34.03	39.03	32.04	28.04	22.04	22.04	22.04	40.03	39.03	30.03	30.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	
Hemmer	32.03	34.03	39.03	32.04	28.04	22.04	22.04	22.04	40.03	39.03	30.03	30.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	
Kegon	32.03	34.03	39.03	32.04	28.04	22.04	22.04	22.04	40.03	39.03	30.03	30.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	
Logan	36.25	35.21	32.12	32.12	37.13	37.20	30.14	31.12	39.27	39.17	32.20	35.25	33.10	31.25	31.19	25.35	35.18	36.19	40.20	45.30	32.25	34.19	22.77	33.20	39.30	31.16	32.12	34.26	36.28	32.15	15.11	31.1618.8	
Lucin	38.18	32.44	23.33	28.5	28.8	31.12	21.22	27.2	38.17	27.8	32.9	32.9	27.12	35.12	31.15	27.1	30.10	31.4	25.5	38.8	37.16	28.8	23.55	31.5	31.18	28.4	30.4	34.16	35.19	26.12	16.26	29.88.5	
Mendowville	38.8	36.9	38.4	25.3	38.3	28.10	28.8	28.8	40.0	35.8	39.5	41.7	38.2	41.10	44.15	11.35	38.22	38.24	44.4	42.9	40.13	30.2	23.5	31.5	31.18	28.4	30.4	34.16	35.19	26.12	16.26	29.88.5	
Morgan	36.8	30.9	32.2	34.0	32.0	34.18	30.17	34.18	39.19	34.19	35.1	36.19	31.21	36.26	35.27	31.18	30.22	40.24	44.4	42.9	40.13	30.2	23.5	31.5	31.18	28.4	30.4	34.16	35.19	26.12	16.26	29.88.5	
Ogden No. 1	30.14	33.16	31.11	32.9	26.9	26.9	34.11	40.22	34.2	34.8	31.9	31.9	36.9	36.27	31.14	31.12	30.12	40.15	39.21	37.17	35.19	31.1	35.6	36.26	34.15	33.12	32.12	30.10	29.18	27.10	13.8	31.212.2	
Park City	31.15	34.16	33.9	29.9	28.8	29.8	28.7	26.5	35.13	34.6	30.9	29.7	33.19	32.27	3																		
Salt Lake City	42.28	42.27	35.22	32.20	38.20	40.21	36.18	36.17	42.26	36.22	36.21	40.22	38.21	41.31	37.26	38.22	38.24	44.25	42.28	46.33	38.30	33.26	32.22	46.29	43.31	40.26	37.26	39.28	42.29	35.17	20.11	38.224.4	
Silver Lake	38.16	39.9	46.6	39.14	35.5	38.4	41.5	34.7	37.3	38.12	36.6	42.12	34.14	36.22	41.15	43.9	47.13	39.14	42.16	46.22	41.17	36.12	32.2	34.17	38.20	42.8	38.12	39.17	38.20	33.15	24.4	38.311.6	
Snowflake	30.6	23.3	31.1	25.6	23.5	33.8	27.7	12.7	38.5	32.17	41.0	32.2	30.4	28.14	32.17	27.6	26.1	33.2	26.6	34.2	36.8	32.2	36.8	34.5	44.23	42.26	41.24	38.22	34.21	40.24	35.21	23.5	33.920.9
Theodore	40.24	42.2	47.27	36.25	37.18	38.15	35.15	33.18	43.20	35.18	43.17	37.21	39.19	42.26	38.25	39.20	39.17	42.22	43.23	48.28	41.26	39.20	34.15	44.23	42.26	41.24	38.22	34.21	40.24	35.21	23.5	33.920.9	
Verma [near]	15.16	27.16	32.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15
Woodruff	15.16	27.16	32.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15	38.15	35.15	33.15	35.15
MIDDLE.																																	
Black Rock	35.5	34.10	38.15	35.10	43.8	42.6	39.5	39.4	50.7	38.8	39.8	42.8	40.9	37.24	42.12	38.10	35.10	35.9	42.12	42.9	43.9	48.4	44.4	44.4	34.15	37.16	35.23	33.22	35.18	47.10	41.15	32.0	38.911.1
Castle Dale	44.14	41.18	41.9	45.14	43.8	44.5	45.5	45.5	45.11	40.4	45.11	44.9	44.15	42.21	39.20	37.7	43.5	44.5	50.11	50.22	50.11	40.23	41.22	47.47	47.17	45.32	40.26	45.5	43.70	43.6	45.10	44.411.1	
Deseret	42.12	33.15	39.20	38.25	43.13	47.9	45.8	47.8	45.7	48.10	47.12	48.9	45.8	40.11	43.13	43.9	45.10	43.14	40.12	43.9	45.13	45.18	46.9	45.10	43.11	45.13	45.18	45.17	38.9	44.16	44.10	43.612.2	
Dragon	50.25	43.25	51.24	52.24	49.17	48.17	47.15	50.17	57.25	45.17	47.19	52.19	46.24	46.31	43.31	46.17	48.15	60.21	59.2	53.28	59.27	48.25	36.24	53.20	45.25	55.29	54.28	42.27	49.28	42.24	41.10	48.922.7	
Fillmore	43.2	45.20	41.16	48.10	39.9	40.14	38.15	48.15	54.29	55.10	42.20	44.23	48.38	41.28	40.18	40.18	49.20	56.24	54.27	40.26	30.20	31.19	42.24	41.29	43.24	42.24	42.28	42.28	42.28	29.2	43.019.9		
Garrison	42.16	44.22	38.15	35.16	37.12	40.13	39.12	45.10	45.25	36.28	40.28	39.28	40.25	40.28	37.29	42.41	41.2	39.33	45.27	43.29	44.29	39.35	38.1	40.29	35.28	43.2	38.30	39.30	36.19	36.29	38.27	20.7	38.120.5
Government Creek	35.6	35.10	34.14	38.9	39.10	37.7	37.7	33.3	43.5	41.1	37.11	37.1	36.7	35.2	42.22	42.2	41.2	40.33	45.27	43.29	44.29	39.35	38.1	40.29	35.28	43.2	38.30	39.30	36.19	36.29	38.27	20.7	38.120.5
Green River	32.20	32.21	30.17	36.19	35.19	37.21	36.20	42.23	40.20	41.20	38.13	38.15	42.19	39.26	30.22	42.7	43.23	47.24	41.20	42.18	39.19	42.23	41.18	44.29	38.13	35.1	35.1	35.1	35.1	35.1	35.1	35.1	
Isapah [near]	38.17	38.16	39.20	39.16	35.14	34.9	25.6	37.8	43.15	33.11	38.10	36.12	39.10	39.38	36.27	31.10	36.7	43.18	43.21	42.18	39.19	42.23	41.18	44.29	38.13	35.1	35.1	35.1	35.1	35.1	35.1	35.1	
Levan	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	
Manti	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	42.15	
Mount Nebo	38.16	42.18	41.20	38.18	40.17	38.15	33.15	40.15	46.16	34.13	38.17	38.17	39.19	43.32	37.28	34.14	39.13	43.19	48.20	46.16	41.18	40.26	39.22	41.20	48.20	41.19	35.21	41.19	35.21	41.19	35.21	41.19	35.21
Mount Pleasant	38.20	40.22	38.20	37.19	35.2	42.0	36.0	50.1	59.2	43.5	42.4	44.6	45.24	40.21	44.11	43.9	48.11	50.19	54.8	54.8	55.6	46.18	43.19	43.19	55.20	50.22	50.12	52.8	54.7	48.12	41.5	41.5	41.5
Provost	42.14	40.12	48.8	39.7	53.2	42.0	36.0	50.1	59.2	43.5	42.4	44.6	45.24	40.21	44.11	43.9	48.11	50.19	54.8	54.8	55.6	46.18	43.19	43.19	55.20	50.22	50.12	52.8	54.7	48.12	41.5	41.5	41.5
Richfield	49.7	44.22	53.13	52.8	47.6	48.1	53.2	54.1	52.15	46.5	47.9	52.6	45.13	44.10	46.13	50.11	55.9	52.20	59.19	53.22	60.18	49.24	43.24	52.31	43.21	55.28	49.26	43.2	50.20	38.27	41.10	49.215.0	
Solopio	48.6	48.5	45.6	43.4	42.0	40.4	42.0	42.4	40.6	46.10	48.15	42.10	43.12	45.6	43.8	40.10	40.10	42.18	40.16	45.18	46.18	43.17	46.18	48.20	48.15	48.10	48.12	47.10	48.12	40.4	43.2	44.2	49.9
Soldier Summit	43.10	41.11	35.11	27.9	41.9	40.10	33.6	33.5	52.9	39.8	46.15	43.9	43.20	32.20	37.20	41.11	37.10	52.11	54.21	47.20	37.18	33.22	34.22	33.25	38.15	36.19	44.2	45.19	43.17	42.15	24.12	39.513.8	
Thistle Creek	36.2	30.0	37.2	36.7	45.1	40.2	40.3	38.3	41.2	40.6	39.3	39.0	41.1	33.18	42.11	30.4	38.10	36.8	43.4	42.2	39.5	48.9	37.11	35.24	38.38	37.21	39.21	39.9	40.6	40.15	28.1	38.3	7.7
Utah Lake Pmp. Sta.	43.16	44.25	50.30	44.1	38.11	44.16	50.20	58.18	59.21	48.18	44.11	47.16	50.27	44.33	35.27	40.3	43.9	39.16	50.16	48.14	54.18	40.19	44.20	45.30	42.58	48.19	45.25	35.24	38.17	36.15	31.2	44.031.0	
Wellington	43.16	44.25	50.30	44.1	38.11	44.16	50.20																										

TOTAL PRECIPITATION, JANUARY, 1908



SCALE OF SHADES IN INCHES



+ Precipitation incomplete.

567.02
726

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

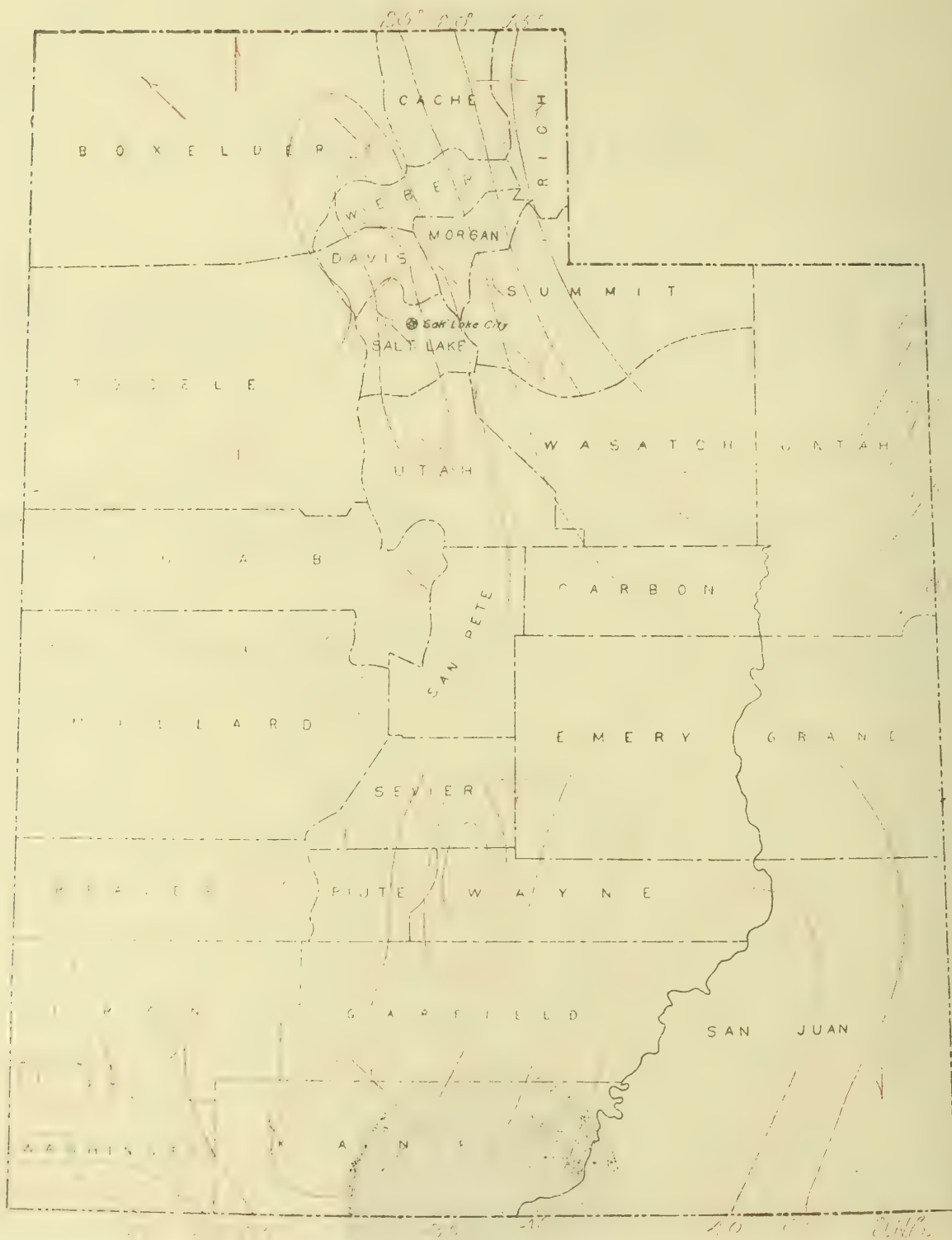
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

APRIL 10, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, FEBRUARY, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, FEBRUARY, 1908. No. 2.

GENERAL SUMMARY.

The month opened with comparatively cold weather over the entire State. Very low temperatures occurred in the northern portion on the 1st and 2d. The weather then moderated rapidly, and nearly normal temperature conditions prevailed until the 12th, when another cool spell began. This lasted during the remainder of the second decade, and was followed by gradually rising temperature until the close of the month. The mean temperature during the last five days was much above the normal, and the monthly maximum temperature at nearly all stations occurred during that time.

The precipitation was unevenly distributed over the State, and was deficient in amount, as compared with the normal, over the northern and middle sections. An excess was general over the southern portion, the precipitation being heavy in the extreme southern part of the State. Unusually heavy precipitation also occurred in the southwestern portion of Tooele County. Thunderstorms, accompanied by sleet and hail in some localities, occurred over the southern part of the State during the last week of the month.

High winds were reported on a number of days from nearly all districts.

The sunshine was abundant over the northern half of the State, but it was slightly deficient over the southern portion.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 52 stations, was 31.2° , which was 2.0° above the normal.

The highest local monthly mean was 47.3° at St. George, and the lowest was 12.2° at Ft. Duchesne.

The highest temperature recorded was 80° at Milford on the 28th, and the lowest, -34° at Woodruff, on the 1st, giving a range for the section of 114° .

The greatest local monthly range was 84° at Woodruff, and the least, 48° at Hite.

PRECIPITATION.

The average precipitation, determined from the reports of 65

stations, was 1.16 inches, which was 0.30 inch below the normal for the State.

The greatest monthly amount was 3.76 inches at Ibapah (near), and the least, 0.23 inch at Tropic.

The greatest amount of precipitation in any 24 consecutive hours was 1.50 inches at Grayson on the 3rd.

There was an average of 5 days with 0.01 inch or more of precipitation; 5 over the northern, 5 over the middle, and 5 over the southern section.

WIND.

The prevailing direction for the section was north.

The total number of miles recorded at Salt Lake City was 3978; at Modena, 6712; at Grand Junction, Colo., 2964; and at Pocatello, Idaho, 6209.

The maximum velocity at Salt Lake City was 37 miles per hour from the northwest on the 29th; at Modena, 48 miles from the southwest on the 29th; at Grand Junction, Colo., 24 miles from the south on the 29th; and at Pocatello, Idaho, 36 miles from the southwest on the 29th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 12; partly cloudy days, 8; cloudy days, 9.

Determined from the records of automatic sunshine recorders, Salt Lake City had 66 per cent; Modena 62 per cent; Grand Junction, Colo., 64 per cent; and Pocatello, Idaho, 74 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 63 per cent, the lowest observed reading being 26 per cent on the 27th; at Modena, 76 per cent, the lowest observed reading being 35 per cent on the 26th; at Grand Junction, Colo., 70 per cent, the lowest observed reading being 24 per cent on the 29th; and at Pocatello, Idaho, 68 per cent, the lowest observed reading being 40 per cent on the 27th.

MISCELLANEOUS PHENOMENA.

Halo, solar—Henefer, 1; Modena, 8.

Corona, lunar—Government Creek, 8, 9; Ogden No. 2, 13.

Halo, lunar—Marysville (near), 6, 11; Modena, 6; Ogden No. 2, 9, 12; Ranch, 7, 8.

Thunderstorms—Henefer, 29; Huntsville, 29; Moab, 23; Pinto, 22; Ranch, 22; St. George, 12, 22, 23; Tropic, 22.

Hail—Government Creek, 29; Henefer, 29; Levan, 4, 29; Marysville (near), 23, 29; Morgan, 29; Nephi, 29; Ogden No. 2, 29; St. George, 12; Tropic, 29.

Sleet—Government Creek, 3; Heber, 4, 29; Henefer, 29; Marion, 3, 29; Marysville (near), 23; Meadowville, 29; Milford, 23; Modena, 17; Saltair Beach, 10.

Fog—Cedar City, 3; Deseret, 23, 24; Grayson, 20; Henefer, 1; Ibapah (near), 3, 9, 10, 12, 23; Marion, 8; Marysville

(near), 23; Meadowville, 16, 18-20; Modena, 23; Salt Lake City, 24; Trout Creek, 9.

High Wind—Corinne, 28, 29; Deseret, 4, 10-12, 27-28; Enterprise (near), 27-29; Garrison, 1, 2, 11-13, 16, 26, 27; Grayson, 13; Heber, 28, 29; Henefer, 4, 12, 28, 29; Hite, 10, 10, 29; Ibapah (near) 9, 28, 29; Marion, 9, 10, 12, 13, 28, 29; Marysvale (near) 4, 9, 25, 27-29; Meadowville, 4; Modena, 9, 11-13, 27-29; Nephi (near), 9, 28; Ogden No. 2, 28, 29; Park City, 26-28; Pinto, 13, 28, 29; Provo, 28; Ranch, 13; Richfield, 28, 29; St. George, 12; Saltair Beach, 27-29; Salt Lake City, 4, 10, 11, 13, 27-29; Scipio, 9, 27-29; Tropic, 23.

COMPARATIVE STATE DATA FOR FEBRUARY.

Year.	Temperature.			Average Precipitation.
	Mean.	Highest.	Lowest.	
1891	.....	..	....	....
1892	32.4	73	34	0.77
1893	26.6	70	—32	1.35
1894	20.9	68	—34	1.11
1895	25.5	74	—33	1.25
1896	31.0	74	—16	0.46
1897	27.0	63	—21	2.35
1898	29.1	79	—21	0.47
1899	28.8	77	—50	1.73
1900	32.2	73	—24	0.57
1901	31.0	75	—26	1.90
1902	34.1	74	—20	0.87
1903	16.6	67	—39	0.75
1904	34.2	80	—26	1.53
1905	30.5	73	—35	1.67
1906	33.7	84	—15	0.88
1907	40.4	86	—3	1.95
1908	31.2	80	—34	1.16

WATER STAGES.

The level of Great Salt Lake on February 1st was 3.4 feet above zero; on February 15th, 3.6 feet above, and on March 1st, 3.7 feet above.

Depth of Snow in the Mountains at the Close of February, 1908.

The snowfall for the month of February was below the average, the largest amounts being in the mountain districts. The snowfall in the hills and mountains was less than last year, but owing to the amount of snow and ice left over from last season, it will compare very favorably with that of previous years. The snow was well packed and drifted in the mountains generally, and in good condition for preservation for irrigation purposes. The prospective water supply will be ample for all purposes for the coming season. The lakes and streams were very high for this season.

GREEN AND COLORADO RIVERS WATERSHED.

Kelton—On account of the prevailing thawing and freezing weather during the month, the snow became packed solid, with a crust over the surface. It was drifted but little. Portage—The mountains were well moistened with rain, so that all springs are full of water. The snow was well drifted. Woodruff—The snow was well packed and drifted. Hyrum—The snow in the mountains was quite solid. Meadowville—The snow was well packed and solid, but no additional amount was

added during the month. Randolph—No snow storms occurred during the month, but the snow in the mountains was well packed. Laketown—The snow was well drifted and moderately well packed. Huntsville—The snow was very loose and light, and not much drifted. Morgan—The snow was well packed and solid in the hills. Farmington—The snow in the hills was fairly well drifted and packed. Layton—The snow was well drifted and well packed in places. Henefer—The snow was well packed, but very little drifting occurred. Castle Rock—The snow was packed but not well drifted. Rockport—The snow was very loose and dry and not drifted. Hunter—The snow was packed and in good condition. Ibapah—The snow was drifted and crusted hard.

SEVIER LAKE WATERSHED.

Levan—The snow in the mountains was more solid and better packed than it has been for several years. Wellington—The snow was well drifted and also well packed. Holden—The snow was well packed. Garrison—The snow was drifted and packed solid. Oak City—The supply of snow in the mountains seemed to be very good, and was well packed. Annabella—The snow was very well drifted, and was packed solid. Richfield—The snow was well drifted and packed. Beaver—The snow was solid and well packed. Marysvale—The snow was quite well packed. Pinto—The snow was very solid and fairly well drifted on the northern slopes. Cedar City—The snow was well packed and drifted. Modena—The snow on the mountains was well packed.

GREAT SALT LAKE WATERSHED.

Ft. Duchesne—The snow in the mountains was well packed, and a good supply of water for the coming season is insured. Jensen—The snow was drifted and solid. Ferron—The snow was well drifted and solid. Castle Dale—The snow was quite solid and well drifted. Emery—Considerable snow fell during the month, and being wet, it became well packed and solid. Lawrence—The snow was well drifted. Richardson—The snow was solid and well packed, but as there has been but little wind, the drifts are not deep. Loa—Owing to warm days and cold nights, the snow became well packed.

OBSERVERS' REMARKS.

Marion.—Steady cold weather prevailed during the month. The first arrival of black birds for the season was observed on the 26th.—James Woolstenhulme.

Marysvale (near).—Much cloudy weather prevailed during the month. This was the first February in eight years without zero temperatures. Robins, blue birds and butterflies have been observed.—John W. Henry.

Meadowville.—The past month has been exceptionally fair with very little stormy weather. The last week was mild and springlike.—J. S. Moffat.

Pinto.—The weather during the month was cloudy and stormy. A warm south wind prevailed during the closing days causing the snow to melt rapidly.—John H. Harrison.

CLIMATOLOGICAL DATA, FEBRUARY, 1908.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches.					Sky.				Prevailing direction of wind.	Observations.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (in inches).	Days with 1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
NORTHERN.																				
Alpine	Utah	4,900	12																	T. B. Whitby.
Castle Rock	Summit		4								0.35		0.15	7.0	4	10	7	6	e.	David Moore.
Crane	Boxelder	4,240	38	33.8	-3.9	62	*25	1	1	41	0.60	-0.62	0.30	6.0	3	7	17	5	nw.	Agent So. Pacific R. R.
Drummond	Davis	4,267	8	35.4	-4.5	62	28	13	1	27	1.75	-0.60	0.83	16.4	0	14	5	10	ne.	Charles Boylin.
Emery	Uinta	5,000	20	12.2	7.0	43	*27	20	15	48	0.70	-0.26	0.26	9.5	4	14	8	7		Post Surgeon.
Huntsville (near)	Tooele		2								0.53		0.30		5					A. J. Fraser.
Idaho	Wasatch	5,606	15	26.6	-4.2	58	27	14	1	42	0.78	-1.32	0.25	7.5	6	12	8	9	n.	John Crook.
Hammer	Summit	5,301	0	27.0	3.0	57	*26	8	1	45	0.46	1.58	0.15	2.8	6	13	11	5	nw.	William Brewer.
Huntsville	Weber	5,100	13								0.83	1.43	0.43	7.5	5	10	13	6		Lars Petersen.
Idaho	Boxelder	4,230	30	20.4	-0.4	56	28	2	1	27	0.60	-0.03	0.50	6.0	2	14	8	7	se.	Agent So. Pacific R. R.
Idaho	Cache	4,507	17	27.2	2.0	58	27	6	1	24	0.81	-0.37	0.40	11.0	3					Agricultural College.
Idaho	Boxelder		3																	C. J. Burke.
Idaho	Summit		3								1.34		0.60	8.9	5	7	7	15	nw.	J. Woolstenhulme.
Idaho	Rich	6,200	9	19.4	2.2	49	27	14	1	34	1.17	0.67	0.60	8.5	3	15	3	11	w.	J. S. Moffat.
Idaho	Cache	4,848	13								0.85	-0.38	0.37		6					Fred Yates.
Idaho	Morgan	5,080	5	24.6		59	*26	11	19	52	0.61	0.10	0.10	7.5	6	13	7	9	se.	T. R. G. Welch.
Idaho	Weber	4,310	7	33.0		60	28	4	1	25	1.35	0.60	0.65	5	20	0	9	nw.	Enoch Farr.	
Idaho	Weber	4,310	38	36.4	3.6						0.90	-0.64	0.38	6.5	6	11	4	14	e.	W. H. Chevers.
Idaho	Summit	7,800	11	26.0	0.8	50	27	5	1	33	1.00	-1.87	0.40	10.0	5	17	6	6		F. W. Jones.
Idaho	Boxelder										0.60	0.22	0.30	6.0	4					F. C. Houghton.
Idaho	Rich		3								0.37		0.18	3.0	3	20	1	8	sw.	Wm. Rex.
Idaho	Salt Lake		4	27.2		55	28	0	1	30	1.16	0.60	10.0	6						E. J. Bench.
Salt Lake City	Salt Lake	4,366	34	36.2	3.3	62	27	13	1	22	1.24	-0.20	0.65	11.8	7	10	13	6	se.	Section Center.
Idaho	Salt Lake		1																	N. J. Ferhaff.
Idaho	Boxelder	4,360	18	28.2	-1.9	58	28	8	1	40	0.70	0.21	0.35		3	12	13	4	s.	Joseph Robbins.
Idaho	Wasatch		2																	S. A. Chivens.
Idaho	Wasatch	5,507	2	17.8		56	28	17	14	43	0.88	0.38	8.8	5	6	16	7	w.	M. M. Smith.	
Idaho	Tooele	4,900	12	34.2	2.3	60	28	0	1	26	1.34	+0.23	0.51		7	15	2	12		I. J. Elkington.
Idaho	Uinta		13																	Joab Collier.
Idaho	Rich	6,500	11	15.2	3.4	50	27	34	1	54	0.25	0.67	0.15	4.0	2					C. G. Youngberg.
Averages				26.9	-0.9						0.83	-0.50		7.9	5	13	8	8	nw.	
MIDDLE.																				
Idaho	Sevier		2																	J. W. Fairbanks.
Idaho	Millard	4,872	8																	E. H. Peterson.
Idaho	Emery	5,500	9	29.6	+3.4	61	26	1	14	35	1.50	+0.73	0.75		4	19	10	0		James Jeffs.
Idaho	Millard	4,541	14	32.8	+3.1	60	*16	5	1	45	0.80	0.13	0.50	2.0	4	9	7	13	s.	S. W. Western.
Idaho	Uinta																			H. J. Cooper.
Idaho	Emery	6,260	8	30.5	+2.6	60	25	6	15	38	0.80	-0.05	0.40	8.0	2	0	7	22	e-n.	H. C. Wickman.
Idaho	Millard	5,100	18	38.8	+6.5	67	26	12	14	38	0.87	-0.64	0.23		6					J. J. Starley.
Idaho	Millard		5	32.9		64	27	10	*1	32	0.89	0.31	7.0	5	13	6	8	s.	E. M. Smith.	
Idaho	Tooele	5,277	8	32.0	+2.3	58	28	2	13	35	1.13	-0.29	0.30	10.0	6	12	7	10	s.	Walter James.
Idaho	Emery	4,080	11	34.6	+3.9	67	28	10	5	30	0.50	-0.17	0.30	4.0	3	20	6	3		J. D. Hitch.
Idaho	Tooele	7,500	2	25.8		54	26	-1	13	38	3.76	1.12	39.5		8	19	3	7	e.	Mrs. J. S. Lawton.
Idaho	Millard		1								1.21	0.37			8					Geo. Crane.
Idaho	Juab	5,010	18	31.5	-4.1	56	*27	5	14	30	1.19	0.40	0.34	11.9	7	12	5	12	n.	William Brown.
Idaho	Sanpete	5,575	14																	Louis C. Kjar.
Idaho	Utah	4,050	7																	D. C. Walker.
Idaho	Sanpete	5,859	16	31.6	1.9	57	*26	0	*13	41	0.92	-0.95	0.23		9	8	11	6		Miss Olive E. Peck.
Idaho	Juab		3								1.21	0.27	17.0		9	15	12	2	nw.	A. Madsen.
Idaho	Juab		2								1.11	0.42		5	10	11	8	n.	S. R. Boswell.	
Idaho	Millard		3	33.6		61	*26	4	13	42	0.71	0.27		4	17	9	3	sw.	J. Finlison.	
Idaho	Utah	4,637	3								0.93	0.43	8.0	5	8	12	9	sw.	D. L. Coombs.	
Idaho	Utah	4,532	10	36.4	+6.4	69	28	7	14	37	1.08	0.37	0.50	9.5	5	12	9	8	nw.	B. Y. University.
Idaho	Sevier	5,350	18	31.4	0.0	60	27	2	*1	52	0.40	-0.39	0.25	4.0	2	14	0	15		J. J. Jensen.
Idaho	Millard	5,260	13	35.2	+5.0	62	27	-3	13	41	1.09	-0.73	0.30	4.0	8	6	7	16	sw.	Thomas Memmott.
Idaho	Utah	7,474	10																	Agent Rio Grande R. R.
Idaho	Carbon		3								1.45		0.60	14.5	4					Henry Cullum.
Idaho	Utah	5,075	10	29.8	0.8	58	29	5	5	47	1.81	+0.40	0.70	18.0	7					Agt. Rio Grande W. R. R.
Idaho	Juab		3	32.8		66	27	5	2	41	1.40	0.40	14.0	6	15	10	4			Mrs. W. A. Edwards.
Idaho	Utah		3								1.42	0.52	15.0	5						W. A. Knight.
Idaho	Carbon	5,540	9	26.2	+0.6	60	26	0	16	39	1.40	1.10	0.40	14.0	4					Melville Branch.
Averages				32.1	3.5						1.20	-0.38		11.8	5	12	8	9	n.	
SOUTHERN.																				
Idaho	San Juan	4,800	8																	Miss S. Hubert.
Idaho	Beaver		3	33.2		62	26	4	*13	45	1.23		0.60	12.3	6	6	17	6	sw.	James Connell.
Idaho	Iron		4	34.6		62	27	0	14	39	1.44	0.97	8.5	4	5	14	10	ne.	J. M. Foster.	
Idaho	Garfield		7	31.7	4.5	60	26	0	13	39	0.40	-0.27	0.20	4.0	3	15	4	10		Mrs. E. Clayton.
Idaho	Washington		2								2.56	1.28	8.0	6	5	13	11	s.	John Day.	
Idaho	Garfield	5,700	8	30.4	0.3	58	*25	3	13	33	1.17	0.15	0.62		3	21	8	0		Geo. H. Barney.
Idaho	Washington		4	44.2		72	28	22	*13	38						8	6	15		Joseph T. Atkins.
Idaho	Beaver	7,318	14																	E. R. Smyth.
Idaho	San Juan		3	33.2		59	26	9	*1	30	2.93	1.50	11.0	4	20	2	7	n.	Joseph A. Lyman.	
Idaho	Garfield	3,000	9	41.7	+0.3	69	*25	21	1	37	1.43	0.69	0.90	7.0	7	13	13	3		J. P. Hite.
Idaho	Kane	4,925	8																	E. M. Ford.
Idaho	San Juan	7,000	8																	Mrs. G. W. Carpenter.
Idaho	Wayne	7,000	16	20.3	3.6	48	27	18	14	46	0.30	-0.32	0.30	3.0	1					Michael Hansen.
Idaho	Piute	6,180	9	33.2	+3.8	64	27	1	1	42	0.87	0.40	0.35							

MAXIMUM AND MINIMUM TEMPERATURES, FEBRUARY, 1908.

STATIONS.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	MEAN.																															
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.																															
NORTHERN.																																																															
Carthage	17	1	38	7	11	17	39	20	38	25	42	17	46	10	48	17	46	24	48	17	46	24	48	17	46	24	48	17	46	24	48	17	46	24	48																												
Farmington	18	13	39	10	14	20	39	21	40	27	47	30	49	31	50	39	48	37	46	35	44	33	42	31	40	29	38	27	36	25	34	23	32	21	30																												
Fort Duchesne	19	13	40	11	15	21	40	22	41	28	49	32	51	40	49	38	47	36	45	34	43	32	41	30	39	28	37	26	35	24	33	22	31	20	29																												
Heber	24	18	45	16	20	26	45	27	46	33	52	35	54	42	61	49	58	47	56	45	54	43	52	41	50	39	48	37	46	35	44	33	42	31	40																												
Henderson	24	18	45	16	20	26	45	27	46	33	52	35	54	42	61	49	58	47	56	45	54	43	52	41	50	39	48	37	46	35	44	33	42	31	40																												
Kelton	24	18	45	16	20	26	45	27	46	33	52	35	54	42	61	49	58	47	56	45	54	43	52	41	50	39	48	37	46	35	44	33	42	31	40																												
Logan	24	18	45	16	20	26	45	27	46	33	52	35	54	42	61	49	58	47	56	45	54	43	52	41	50	39	48	37	46	35	44	33	42	31	40																												
Lucin	24	18	45	16	20	26	45	27	46	33	52	35	54	42	61	49	58	47	56	45	54	43	52	41	50	39	48	37	46	35	44	33	42	31	40																												
Meadowville	12	14	35	6	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34																												
Morgan	19	14	41	19	37	31	39	24	38	24	44	37	46	35	44	33	42	31	40	29	38	27	36	25	34	23	32	21	30	19	28	17	26	15	24																												
Ogden No. 1	21	14	41	19	37	31	39	24	38	24	44	37	46	35	44	33	42	31	40	29	38	27	36	25	34	23	32	21	30	19	28	17	26	15	24																												
Park City	17	5	39	26	35	14	20	10	39	11	37	21	35	15	36	24	34	18	33	23	33	23	33	23	33	23	33	23	33	23	33	23	33	23	33																												
Salt Lake City	19	5	39	26	35	14	20	10	39	11	37	21	35	15	36	24	34	18	33	23	33	23	33	23	33	23	33	23	33	23	33	23	33	23	33																												
Salt Lake City	22	13	40	14	20	11	38	24	40	29	46	31	49	36	54	42	51	40	49	38	47	36	45	34	43	32	41	30	39	28	37	26	35	24	33																												
Silver Lake	28	8	33	3	38	11	38	8	34	3	41	8	47	11	46	12	47	11	46	12	47	11	46	12	47	11	46	12	47	11	46	12	47	11	46																												
Snowflake	28	8	33	3	38	11	38	8	34	3	41	8	47	11	46	12	47	11	46	12	47	11	46	12	47	11	46	12	47	11	46	12	47	11	46																												
Strawberry Valley	29	9	34	4	39	12	39	12	40	12	41	12	42	12	43	12	44	12	45	12	46	12	47	12	48	12	49	12	50	12	51	12	52	12	53																												
Theodore	26	9	31	5	36	11	36	11	37	11	38	11	39	11	40	11	41	11	42	11	43	11	44	11	45	11	46	11	47	11	48	11	49	11	50																												
Tooele	26	9	31	5	36	11	36	11	37	11	38	11	39	11	40	11	41	11	42	11	43	11	44	11	45	11	46	11	47	11	48	11	49	11	50																												
Vernal [near]	30	34	15	18	24	39	7	35	9	32	11	27	2	27	4	31	7	35	11	25	7	30	5	27	4	31	7	35	11	25	7	30	5	27																													
Woodruff	30	34	15	18	24	39	7	35	9	32	11	27	2	27	4	31	7	35	11	25	7	30	5	27	4	31	7	35	11	25	7	30	5	27																													
MIDDLE.																																																															
Black Rock	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Castle Dale	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Deseret	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Drum	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Fillmore	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Garrison	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Green River	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Green River	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Harpan [near]	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Levan	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Levan	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Mountain View	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Mount Pleasant	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Oak City	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Provo	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Richfield	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Scipio	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												
Soldier Summit	32	5	31	11	37	20	43	22	38	9	37	10	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43	17	40	15	42	21	45	20	43																												

A hand-drawn map of Utah and surrounding regions, showing county boundaries and names. The map includes labels for Cache, Box Elder, Weber, Morgan, Davis, Salt Lake, Tooele, Utah, Garfield, Kane, Washington, Blaine, Piute, Wayne, Sevier, and San Juan. It also shows the location of Salt Lake City and the Great Salt Lake. The map is drawn on a grid with latitude and longitude markings.

2. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

Daily Precipitation, February, 1908.

| Stations. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|--------------------------------|---------------|-----|------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. |
| Castle Rock..... | | | | .10 | | | | | | | .15 | .05 | | | | | | .05 | | | | | | | | | | | | | | 0. |
| Corinne..... | | | .30 | | | | | | | .20 | .10 | | | | | | | | | | | | | | | | | | | | | 0. |
| Farmington..... | | | .45 | T. | | | | | | .04 | .83 | .20 | | | | | | .13 | | | | | | | T. | | | | .10 | | | 1. |
| Ft. Duchesne..... | | | | T. | | | | | | .12 | .22 | .10 | T. | | | | | | T. | | | | | | .26 | | | | | | | 0. |
| Grantsville (near)..... | | | .15 | | | | | | | . | . | .30 | | | | | | .06 | | | | | | | | | | | | .02 | | 0. |
| Heber..... | | | .25 | | | | | | .05 | .18 | | | | | | | | .15 | | | | | .10 | | | | | | .05 | | | 0. |
| Henefer..... | | .01 | | | | | | | T. | .07 | | | | | | | .06 | | | | | | | | | .05 | | | .15 | | | 0. |
| Huntsville..... | | | .43 | | | | | | | .12 | .11 | | .10 | | | | | .06 | | | | | | | | | | | .11 | | | 1. |
| Kelton..... | | | T. | .50 | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | 0. |
| Logan..... | | | .26 | | | | | | | | .40 | | | | | | | | | | | | | | | | | | .15 | | | 0. |
| Lucin..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marion..... | | | .04 | .05 | | | | T. | | T. | .60 | T. | | | | | .15 | | | | | | T. | | T. | | | | .50 | | | 1. |
| Meadowville..... | | | .60 | .20 | | | | | | | | .05 | | | | | | | | | | | | | | | | | .32 | | | 1. |
| Millville..... | | | .37 | T. | | | | | .15 | .10 | | | | | | | .11 | | | | | | | | .04 | | | | .08 | | | 0. |
| Morgan..... | | | T. | .08 | | | | | .05 | .16 | .12 | | | | | | .10 | | | | | | | | | | | | .10 | | | 0. |
| Ogden No. 1..... | | | .60 | | | | | | .10 | .45 | .10 | | | | | | .10 | | | | | | | | | | | | | | | 1. |
| Ogden No. 2..... | | | .21 | .13 | | | | | .38 | .05 | | | | | | | .10 | | | | | | | | | | | | | .03 | | 0. |
| Park City..... | | | .20 | .13 | | | | | .10 | .40 | .20 | | | | | | .10 | | | | | | .05 | | | | | | .15 | | | 1. |
| Promontory..... | | | .30 | | | | | | .10 | .15 | | | | | | | | | | | | | | | | | | | .05 | | | 0. |
| Randolph..... | | | .18 | T. | | | | | T. | | .09 | | | | | | | | | | | | | | | T. | | | .10 | | | 0. |
| Saltair Beach..... | | | .05 | .05 | | | | | .16 | .60 | .20 | | | | | | .10 | | | | | | | | | | | | .10 | | | 0. |
| Salt Lake City..... | | | .06 | .10 | | | | T. | | .40 | .41 | .09 | | | | | .17 | T. | | | | | | | T. | | | | .01 | | | 1. |
| Silver Lake..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville..... | | | .35 | | | | | | | | .20 | | | | | | .15 | | | | | | | | | | | | .15 | | | 0. |
| Strawberry Valley..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore..... | | | T. | .07 | | | | | T. | .38 | | .20 | | | | | .01 | | | | | | .22 | | | | | T. | | | | 0. |
| Tooele..... | | | .09 | .01 | | | | | | .08 | .36 | .51 | | | | | | .27 | .02 | | | | | | | | | | | | | 1. |
| Vernal (near)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodruff..... | | | .15 | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | 0. |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Rock..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Dale..... | | | .20 | .25 | | | | | | .75 | | | | | | | | | | | | | .30 | | | | | | | | | 1. |
| Deseret..... | | | .50 | .10 | | | | | | .10 | T. | T. | | | | | | | | | | | .10 | | | | | | T. | | | 0. |
| Dragon..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emery..... | | | T. | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | | | 0. |
| Fillmore..... | | | T. | | | | | | .20 | .05 | .23 | .09 | | | | | .10 | | | | | | | .40 | | | | | | | | 0. |
| Garrison..... | | | .31 | .20 | | | | | .05 | T. | .20 | T. | T. | | | | | | | | | .15 | .18 | | | | | | | | | 0. |
| Government Creek..... | | | | | | | | | | | .30 | .20 | | | | | .25 | | | | | | .13 | | | | | .05 | | | | 0. |
| Green River..... | | | .10 | .30 | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | | 0. |
| Ibapah (near)..... | | | T. | T. | | | T. | | .42 | .59 | .43 | .12 | .60 | | | | .10 | | | | | T. | .36 | | | | | .14 | | | | 3. |
| Kanosh..... | | | .26 | | | | | | .08 | .07 | .37 | .19 | | | | | .07 | | | | | .03 | .14 | | | | | | | | | 1. |
| Levan..... | | | .21 | | | | | T. | .22 | .06 | .15 | .12 | | | | | | .34 | | | | | | | | | | .09 | | | | 1. |
| Manti..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount Nebo..... | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | | | | | |
| Mount Pleasant..... | | | .15 | | | | | .05 | | .23 | .20 | .10 | .01 | | | | | .03 | | | | | .04 | | | | | | .02 | | | 0. |
| Nephi..... | | | .27 | | | | | | .15 | .26 | .11 | .07 | | | | | .26 | | | | | | .10 | | | | | .02 | | | | 1. |
| Nephi (near)..... | | | .20 | | | | | | .42 | | | .11 | | | | | | .28 | | | | | .10 | | | | | | | | | 0. |
| Oak City..... | | | .25 | | | | | | | .13 | | | | | | | | | | | | | .06 | | | | | | | | | |
| Payson..... | | | .15 | | | | | | .06 | .07 | .43 | | | | | | .22 | | | | | | | | | | | | | | | 0. |
| Provo..... | | | .12 | | | | | | .12 | .50 | .15 | | | | | | .19 | | | | | | | | | | | T. | | | | 1. |
| Richfield..... | | | | | | | | | .25 | | | | T. | | | .15 | T. | | | | | T. | | | | | | | | | | 0. |
| Scipio..... | | | T. | T. | .30 | | | T. | | .07 | .08 | .02 | .22 | | | | .11 | | | | | | .17 | | | | .12 | | | | | 1. |
| Soldier Summit..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside..... | | | .40 | | | | | | .60 | .30 | | | | | | | | | | | | | .15 | | | | | | | | | 1. |
| Thistle..... | .10 | | .20 | | | | | | .50 | .70 | | | | | | | .10 | .20 | | | | | | | | | | .01 | | | | 1. |
| Trout Creek..... | | | .20 | | | | | | .40 | .20 | .30 | | | | | | | | | | | .10 | | | | | | | | | | 1. |
| Utah Lake Pumping Station..... | | | | .14 | | | T. | | | .52 | | .35 | | | | | .40 | | | | | | | | | .01 | | | | | | 1. |
| Wellington..... | .30 | .40 | | | | | | | | .30 | .40 | | | | | | | | | | | | | | | | | | | | | 1. |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth..... | | T. | T. | .16 | T. | T. | | | T. | .60 | .05 | .25 | | | | | .05 | | | | | | | .12 | T. | | | | | | | 1. |
| Beaver..... | | | | .23 | | | | | | .13 | | .10 | .11 | | | | | | | | | | .97 | | | | | | | | | 1. |
| Cedar City..... | | | .10 | | | | | | | | .20 | .10 | | | | | | | | | | | | | | | | | | | | 0. |
| Coyoto..... | | | | .82 | | | | | .38 | | | | | | | | .08 | | | | | | .28 | | | | | | | | | 2. |
| Enterprise (near)..... | | | .62 | | | | | | .53 | | | | | | | | | | | | | | .02 | | | | | | | | | 1. |
| Escalante..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Experiment Farm..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frisco..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grayson..... | | .15 | 1.00 | | | | | | T. | | .13 | | | | | | | | | | | | .30 | | | | | | | | | 2. |
| Hite..... | | .21 | .90 | .03 | | | | | .04 | | .14 | | | | | | | | | | | | .08 | .03 | | | | | | | | 1. |
| Kanab..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| La Sal..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Loa..... | | | | | | | | | .30 | | .01 | .08 | .02 | | | | .06 | .02 | | | | | T. | .35 | | | | T. | | | | 0. |
| Marysville (near)..... | | | .14 | .15 | | | | | .04 | .20 | .60 | | | | | | | | | | | | .10 | | | | | | | | | 0. |
| Millford..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. |
| Minersville..... | | | | | | | | | | .25 | .26 | | | | | | T. | .04 | T. | | | | | | | | | | .52 | | | 1. |
| Moab..... | | | T. | T. | .64 | | | | .24 | T. | | T. | T. | | | | T. | T. | | | | | T. | .99 | | | | | | | | 1. |
| Modena..... | | | .24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1. |
| Panguitch..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parowan..... | | | .22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

+ Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR MARCH, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

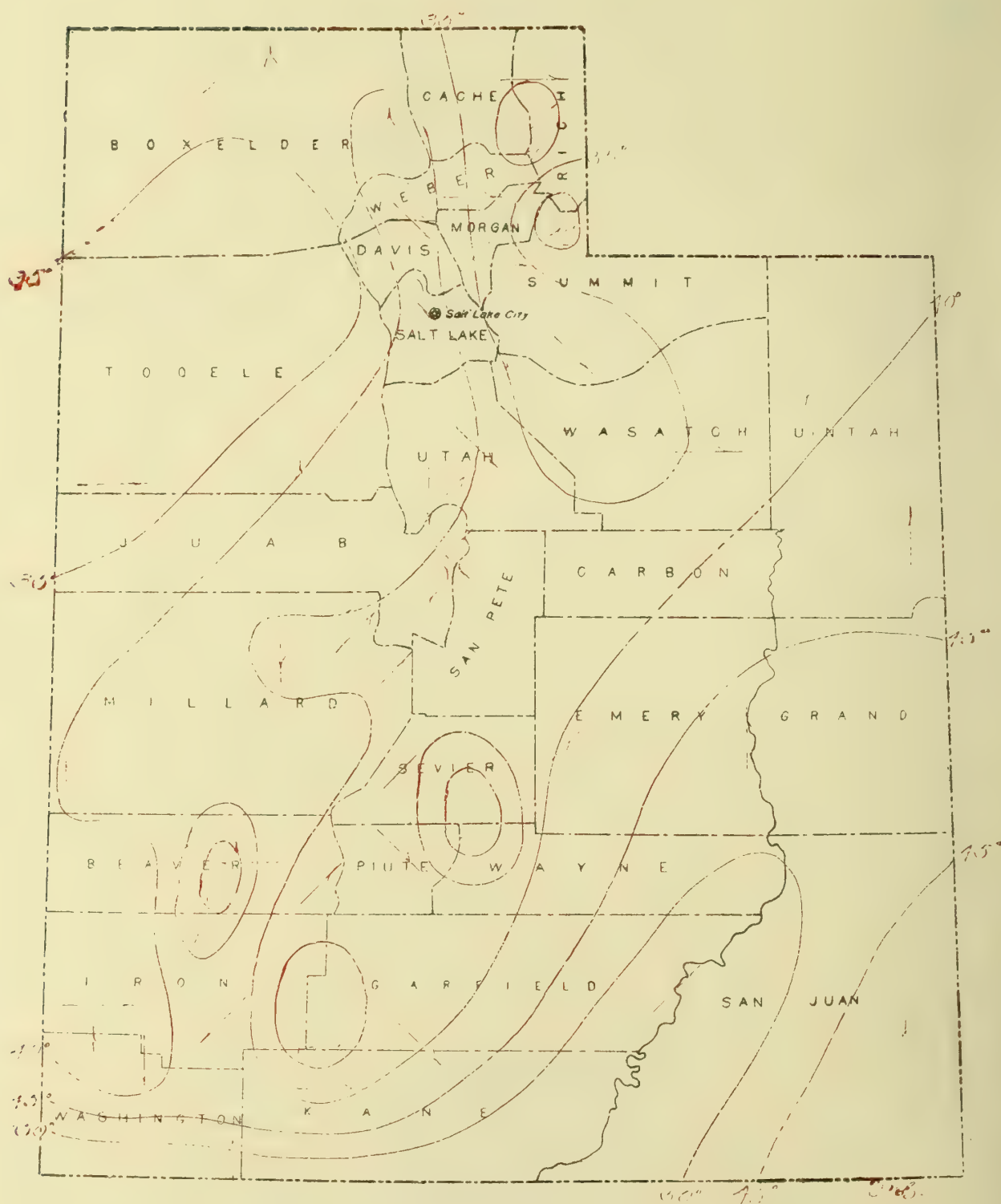
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

APRIL 25, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, MARCH, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, MARCH, 1908. No. 3.

GENERAL SUMMARY.

The mean temperature for the month was above the normal, but was below the mean for March, 1900, 1904, 1905 and 1907. However the month was warmer than that of all other previous years since 1892. The average precipitation was nearly three-fourths of the normal amount for the State as a whole, and it was less than that of any other March during the past 17 years, with the exception of 1896, 1900 and 1901.

The mean temperature was generally above the normal over the State, except in the extreme northwestern portion, and in some districts in the central portion. The temperature was considerably below the normal from the 6th to the 11th, and from the 25th to the close of the month. Unseasonably warm weather was general from the 11th to the 18th over the greater part of the State.

The precipitation was above the normal amount in the eastern portion, and over small areas in the central and southern portion. There was a considerable deficiency in the amount over the remainder of the State, the rainfall being very light in the extreme western part of the north and middle sections. The precipitation mostly fell during the first and last weeks, only a few light scattered showers having occurred during the intervening time.

High winds were general in all sections on numerous dates thruout the month, but no damage was reported from that cause.

The amount of sunshine was greatly in excess of the average for March. Nearly continuous clear weather prevailed during the middle portion of the month, the cloudiness being chiefly confined to the first and last weeks.

No injurious frosts occurred.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 39.8°, which was 1.1° above the normal.

The highest local monthly mean was 53.0° at Hite, and the lowest was 28.9° at Loa.

The highest temperature recorded was 90° at Milford on

the 12th, and the lowest, —20° at Woodruff, on the 7th, giving a range for the section of 110°.

The greatest local monthly range was 82° at Woodruff, and the least, 45° at Logan.

PRECIPITATION.

The average precipitation, determined from the reports of 69 stations, was 1.10 inches, which was 0.40 inch below the normal for the State.

The greatest monthly amount was 2.88 inches at Ranch, and the least, Trace, at Kelton, Lucin and Emery.

The greatest amount of precipitation in any 24 consecutive hours was 1.44 inches at Ranch on the 4th.

There was an average of 5 days with 0.01 inch or more of precipitation; 6 over the northern, 4 over the middle, and 3 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 5170; at Modena, 8679; at Grand Junction, Colo., 4349; and at Pocatello, Idaho, 8198.

The maximum velocity at Salt Lake City was 37 miles per hour from the south on the 25th; at Modena, 50 miles from the southwest on the 25th; at Grand Junction, Colo., 34 miles from the southeast on the 26th; and at Pocatello, Idaho, 40 miles from the southwest on the 31st.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 15; partly cloudy days, 9; cloudy days, 7.

Determined from the records of automatic sunshine recorders, Salt Lake City had 64 per cent; Modena 75 per cent; Grand Junction, Colo., 80 per cent; and Pocatello, Idaho, 62 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 55 per cent, the lowest observed reading being 17 per cent on the 24th; at Modena, 64 per cent, the lowest observed reading being 28 per cent on the 16th; at Grand Junction, Colo., 40 per cent, the lowest observed reading being 14 per cent on the 24th; and at Pocatello, Idaho, 59 per cent, the lowest observed reading being 19 per cent on the 22d.

MISCELLANEOUS PHENOMENA.

Earthquake.—St. George, 29.

Halo, Solar.—Henefer, 13; Modena, 19.

Corona, Lunar.—Government Creek, 15, 16; Salt Lake City, 15.

Thunderstorms.—Henefer, 27; Huntsville, 26; Moab, 5; Ogden, No. 2, 27; Sunnyside, 5.

Hail.—Ft. Duchesne, 4; Levan, 4, 5, 21; Marion, 5; Marysvale (near), 5, 26; Ogden No. 2, 27, 31; Pinto, 4; St. George, 4; Scipio, 27.

Halo, Lunar.—Hite, 15; Modena, 13, 23; Mt. Nebo, 13; Nephi (near), 13; Ogden No. 2, 10, 13, 14; Pinto, 13; Salt Lake City, 13, 14.

Sleet.—Beaver, 4; Castle Rock, 4; Deseret, 4; Ft. Duchesne, 4; Heber, 4, 5, 31; Henefer, 27; Hite, 5; Marion, 4, 5; Meadowville, 4, 12; Pinto, 4; Ranch, 4; Sunnyside, 5, 27.

High Winds.—Alpine, 20; Beaver, 25; Cedar City, 25; Coyoto, 2, 18-22, 25, 26, 30, 31; Deseret, 1-3, 5, 17, 19, 21, 25, 26, 30, 31; Dragon, 4, 18-20, 25-27; Enterprise (near), 3, 20, 25-28, 30; Garrison, 2-5, 12, 17, 21, 24-26, 30, 31; Government Creek, 21, 24, 25, 30; Grayson, 24, 25, 30; Heber, 25; Henefer, 21, 23-25; Hite, 4, 17, 27; Ibapah (near), 17, 18; Levan, 20, 25, 30; Marion, 3, 25; Marysvale (near), 3, 4, 21, 25, 26; Meadowville, 15-18, 21, 23; Modena, 1-3, 5, 19, 21, 24-27, 30, 31; Mt. Nebo, 21, 25, 26, 30, 31; Nephi, 21, 25; Nephi (near), 1, 3, 14, 17, 24-26; Ogden No. 1, 25; Ogden No. 2, 21, 25; Parowan, 1-3, 25, 30, 31; Pinto, 24, 25, 30; Richfield, 1-5, 7, 21, 24-26, 29; Saltair Beach, 26, 27; Salt Lake City, 1, 17, 18, 20, 21, 25, 27, 30, 31; St. George, 21, 22, 26, 27, 30, 31; Scipio, 5, 24, 25, 30; Sunnyside, 31; Theodore, 18; Thistle, 20, 26; Tropic, 21; Woodruff, 17, 19.

Fog.—Ibapah (near), 5, 26, 27; Meadowville, 9-11; Modena, 21; Salt Lake City, 5, 9.

COMPARATIVE STATE DATA FOR MARCH.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | ..... | ..... | ..... | ..... |
| 1892 | 40.0 | 83 | 4 | 1.52 |
| 1893 | 35.6 | 87 | 19 | 2.05 |
| 1894 | 36.6 | 85 | -22 | 1.66 |
| 1895 | 37.0 | 87 | 15 | 1.24 |
| 1896 | 38.0 | 88 | -7 | 0.99 |
| 1897 | 32.0 | 79 | -16 | 2.22 |
| 1898 | 34.2 | 80 | 14 | 1.24 |
| 1899 | 38.5 | 84 | -3 | 2.46 |
| 1900 | 43.9 | 80 | 6 | 0.19 |
| 1901 | 36.8 | 78 | -2 | 0.84 |
| 1902 | 34.9 | 73 | 9 | 1.28 |
| 1903 | 37.3 | 80 | 32 | 1.19 |
| 1904 | 39.9 | 90 | 10 | 2.33 |
| 1905 | 42.2 | 83 | 0 | 1.76 |
| 1906 | 38.0 | 86 | 34 | 3.14 |
| 1907 | 42.4 | 87 | -2 | 1.65 |
| 1908 | 39.8 | 90 | -20 | 1.10 |

WATER STAGES.

The level of Great Salt Lake on March 1st was 3.7 feet above zero; on March 15th, 3.8 feet above, and on April 1st, 3.8 feet above.

ERRATA FOR DECEMBER, 1907.

Pages 93 and 96: Henefer—Total precipitation, recorded as 3.86 inches, should be 3.96 inches.

Page 93: Scipio—Total snowfall, recorded as 6.0 inches, should be 13.0 inches. Trout Creek—Total snowfall, recorded as 8.5 inches, should be 9.5 inches.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF MARCH, 1908.

The snowfall for the month of March was generally about the average. The estimated depth of snow in the mountainous districts at the close of the month ranges from one to eight feet which is considerably less than last year, and it is below the average amount. The snow is generally well packed and drifted in the canyons and gulches in the high altitudes. The storm at the end of the month added considerably to the supply of snow in the mountains over the northern and central portions of the state. The prospective water supply for the coming season appears to be very good with some exceptions. The rivers and streams are well supplied with water.

GREEN AND COLORADO RIVERS WATERSHED.

Kelton.—The snow was packed and drifted. Only two very light falls of snow occurred during the month. Portage.—Only two light flurries of snow fell during the month. The amount of snow in the mountains is comparatively small but is well packed. Millville.—The snow was well packed and drifted. There is an excellent prospect for an abundant supply of water for the coming season. Hyrum.—The snow is solid. Woodruff.—The snow was well packed, and the recent mild weather had no effect on the snow in the hills. Randolph.—After the last thaw the snow became well packed and well drifted. The lower layers of snow have nearly the consistency of ice. Lake town.—The snow was well packed and drifted, and an average water supply for the coming season is indicated. Huntsville.—It is reported that the snow in the mountains was very loose and light and but little drifted. Morgan.—The snow was well packed and drifted. Farmington.—The snow was fairly well packed, and is in good condition for keeping. The prospective water supply for the coming season is good. Layton.—The snow in the hills was well packed and drifted, and in good condition for the coming season. Henefer.—The snow was solid and drifted. Wanship.—The snow was not drifted or packed.

SEVIER LAKE WATERSHED.

Levan.—The snow was well packed and drifted. Manti.—The snow was not drifted as well as usual. Sunnyside.—The snow was well packed, and the ground is full of moisture from frequent thaws. Holden.—The snow appears to be well packed and well drifted. Oak City.—The snow in the mountains is well packed, but is not as deep as it was at this time last year. Scipio.—The snow is solid. Annabella.—The snow was well packed and drifted. Richfield.—The snow was drifted and well packed, and is in good condition to furnish an abundant supply of water for the coming season. Beaver.—During the month the snow in the mountains melted considerably, and became solid. Pinto.—The remaining snow is confined to the north hillsides and is solid. Modena.—The snow was evenly distributed and well packed, but is disappearing rapidly.

GREAT SALT LAKE WATERSHED.

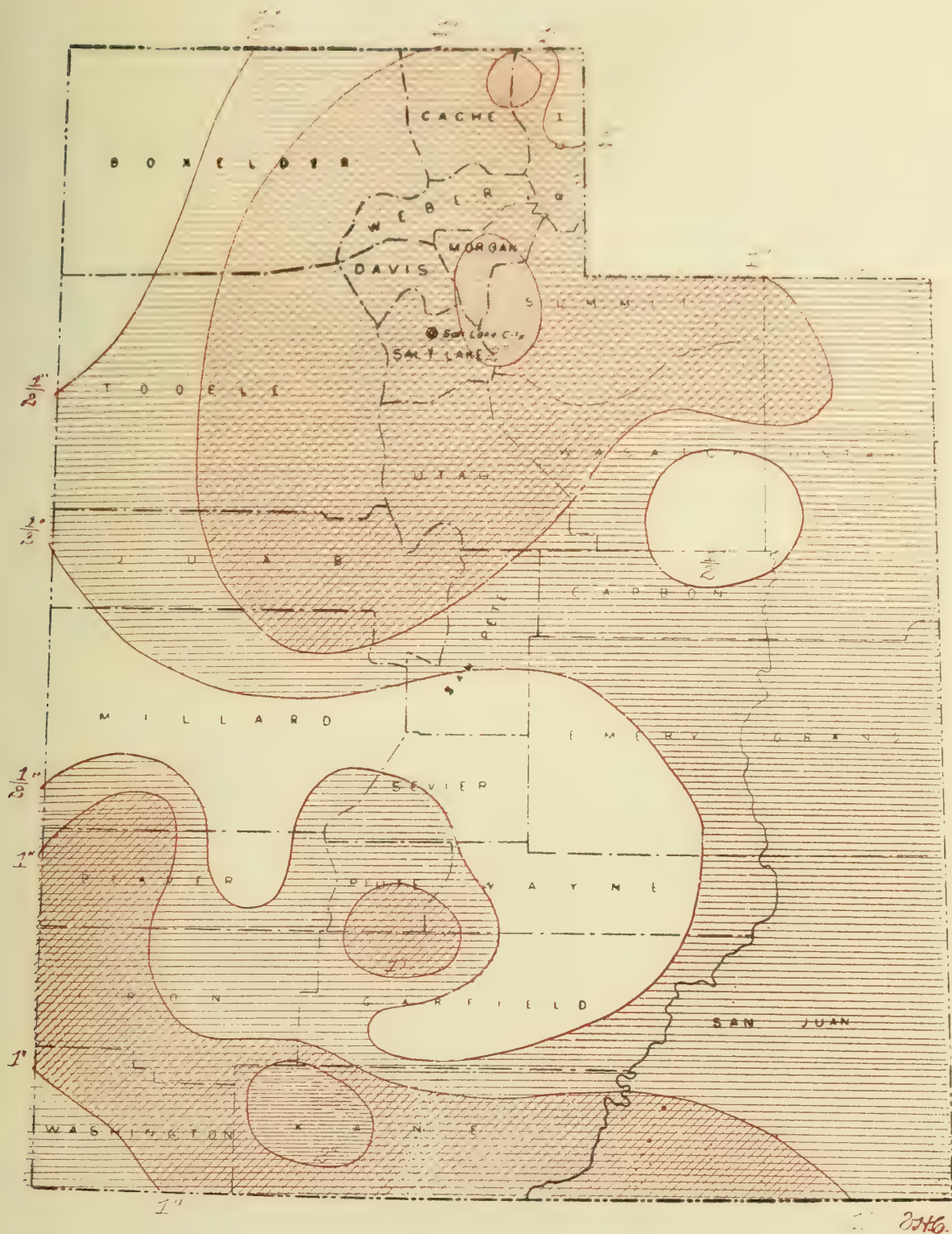
Ft. Duchesne.—The snow seems to be solid, but the outlook for water is poor as compared with last season. Huntington.—The amount of snow is above the average, and seems to be well drifted. Castle Dale.—The snow was well packed, and the outlook for water is very good. Loa.—The snow was well drifted.

Temperature, in degrees Fahrenheit Precipitation, in inches

* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m. and 9 p. m. readings. ‡ Thermometers not supplied by Weather Bureau.

MAXIMUM AND MINIMUM TEMPERATURES, MARCH, 1908.

TOTAL PRECIPITATION, MARCH, 1908



Day of month.

‡ Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR APRIL, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

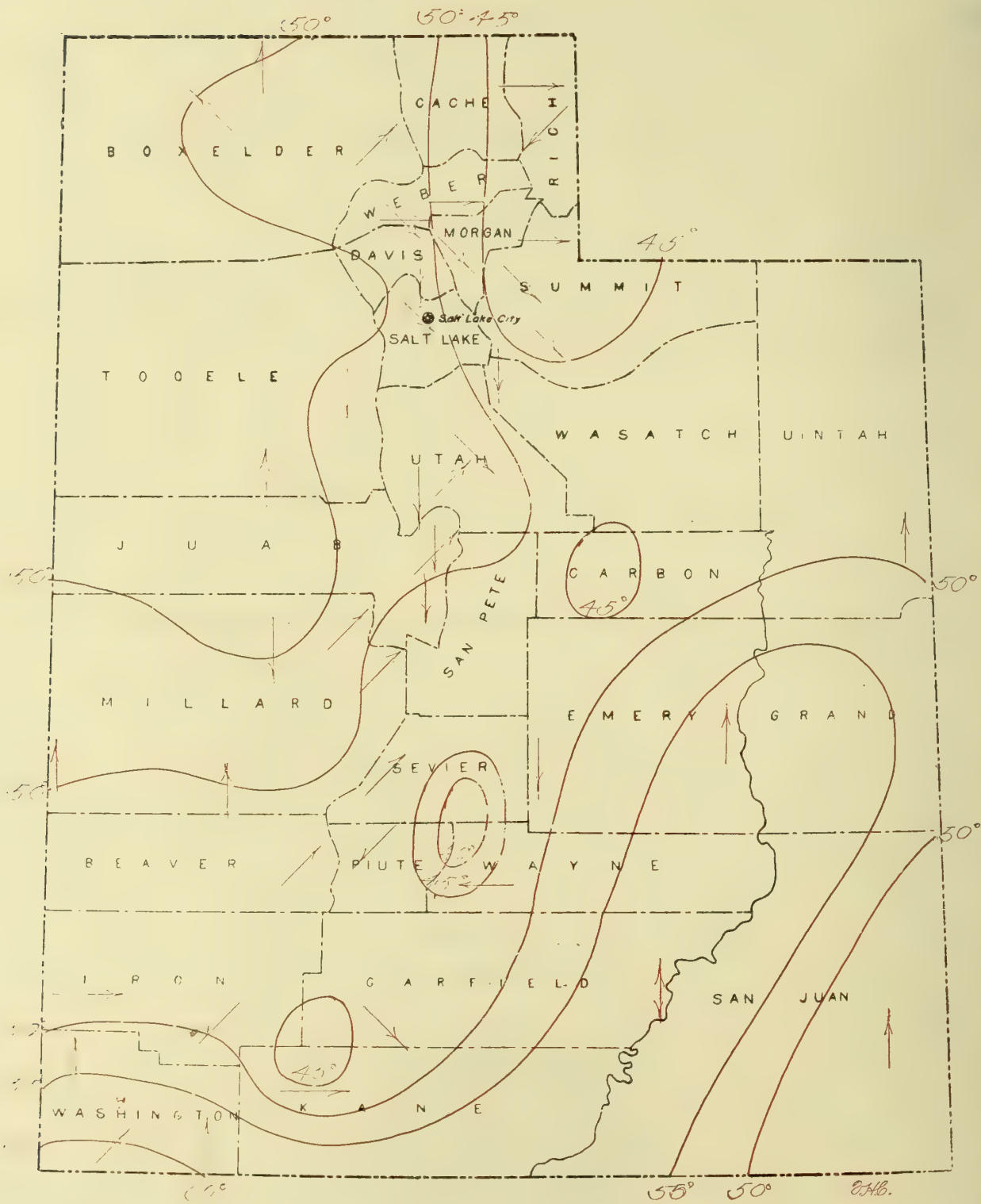
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

MAY 25, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, APRIL, 1908.



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR APRIL, 1908.

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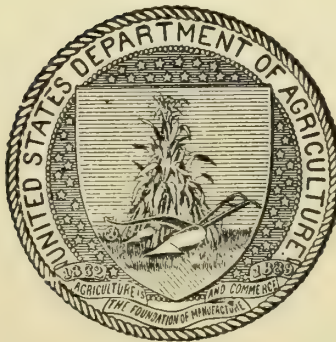
WILLIS L. MOORE

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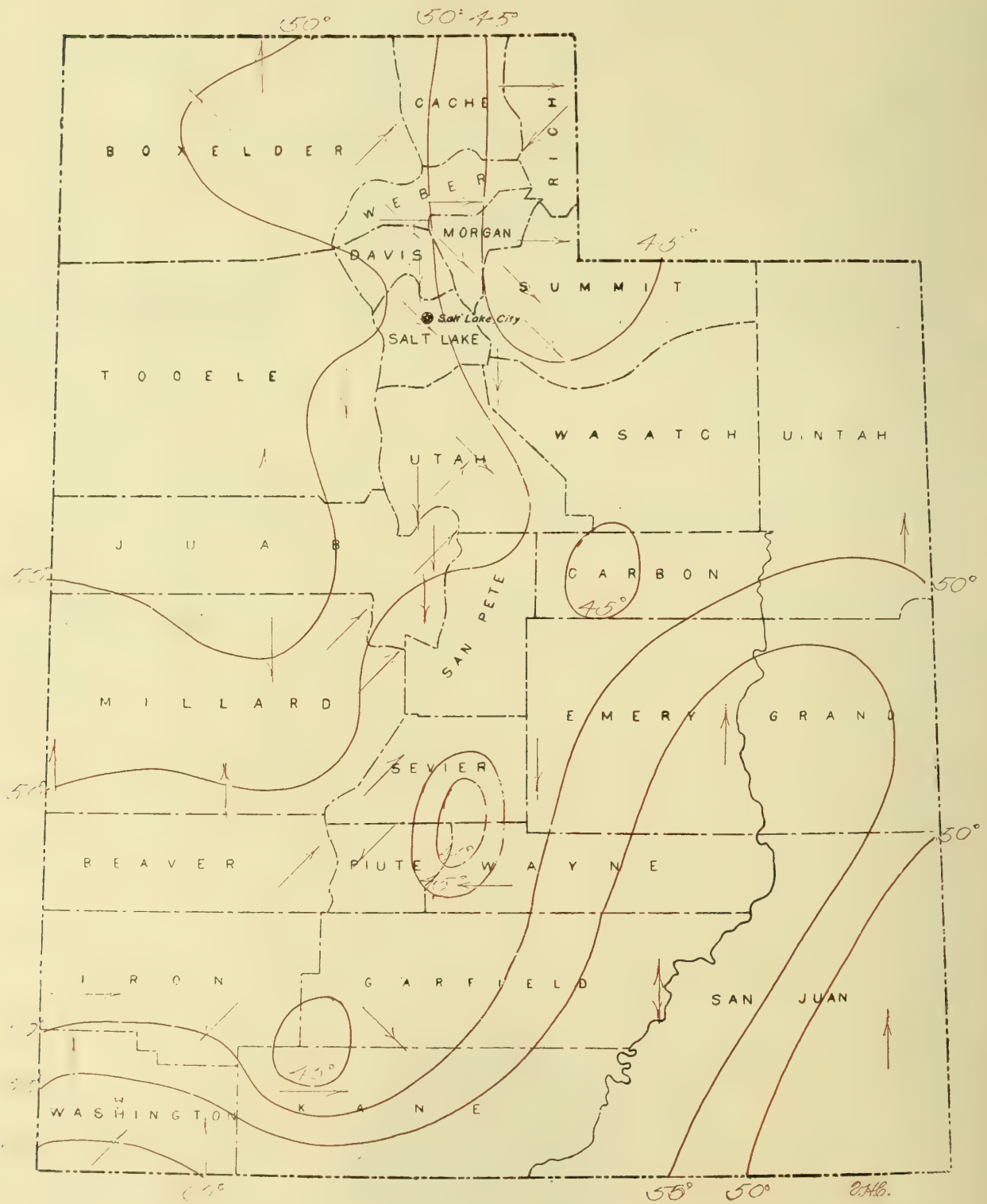
SECTION DIRECTOR



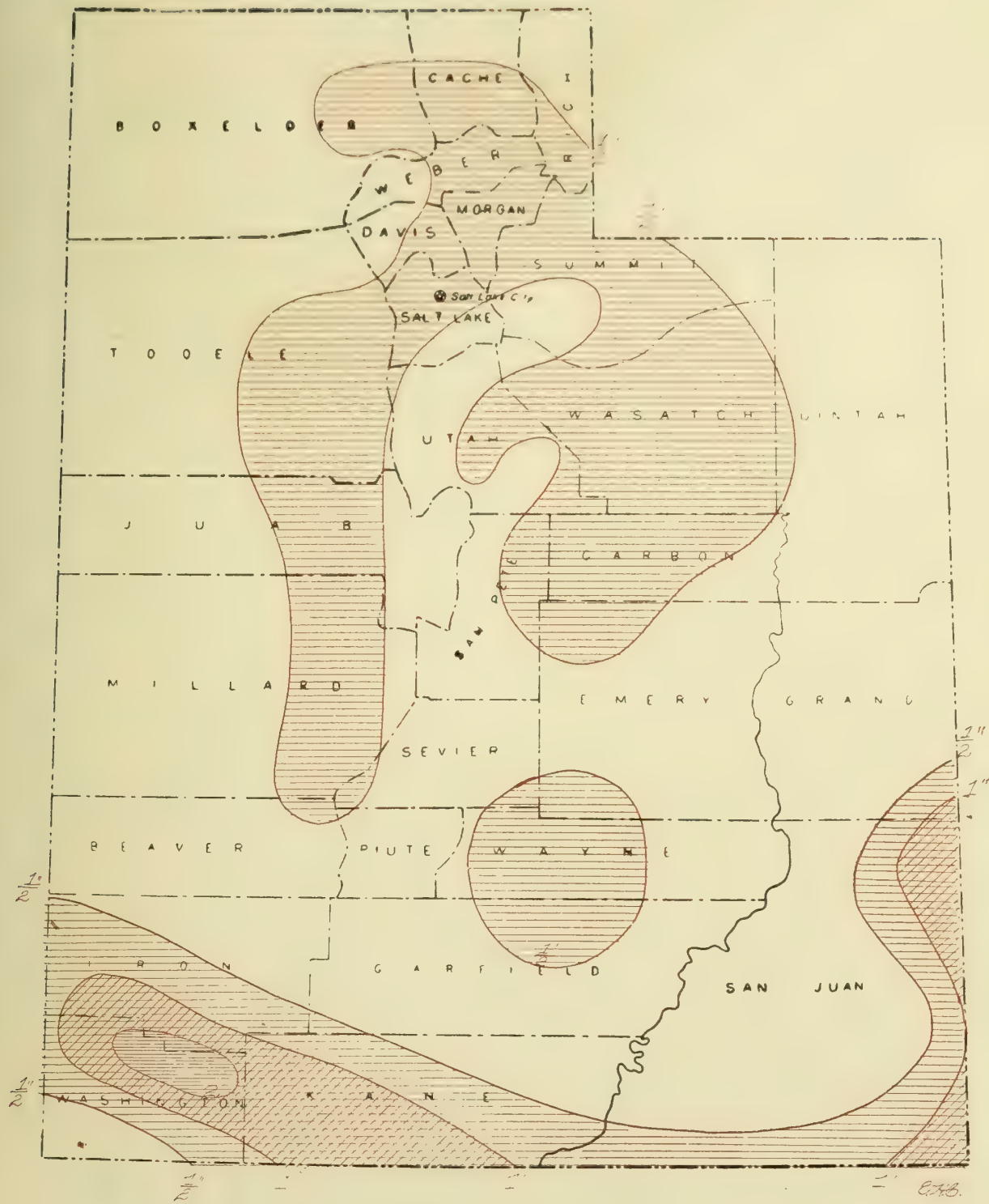
SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

MAY 25, 1908.

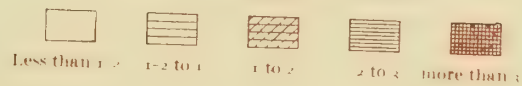
MEAN TEMPERATURES AND PREVAILING WINDS, APRIL, 1908.



TOTAL PRECIPITATION APRIL 1908



SCALE OF SHADES IN INCHES.

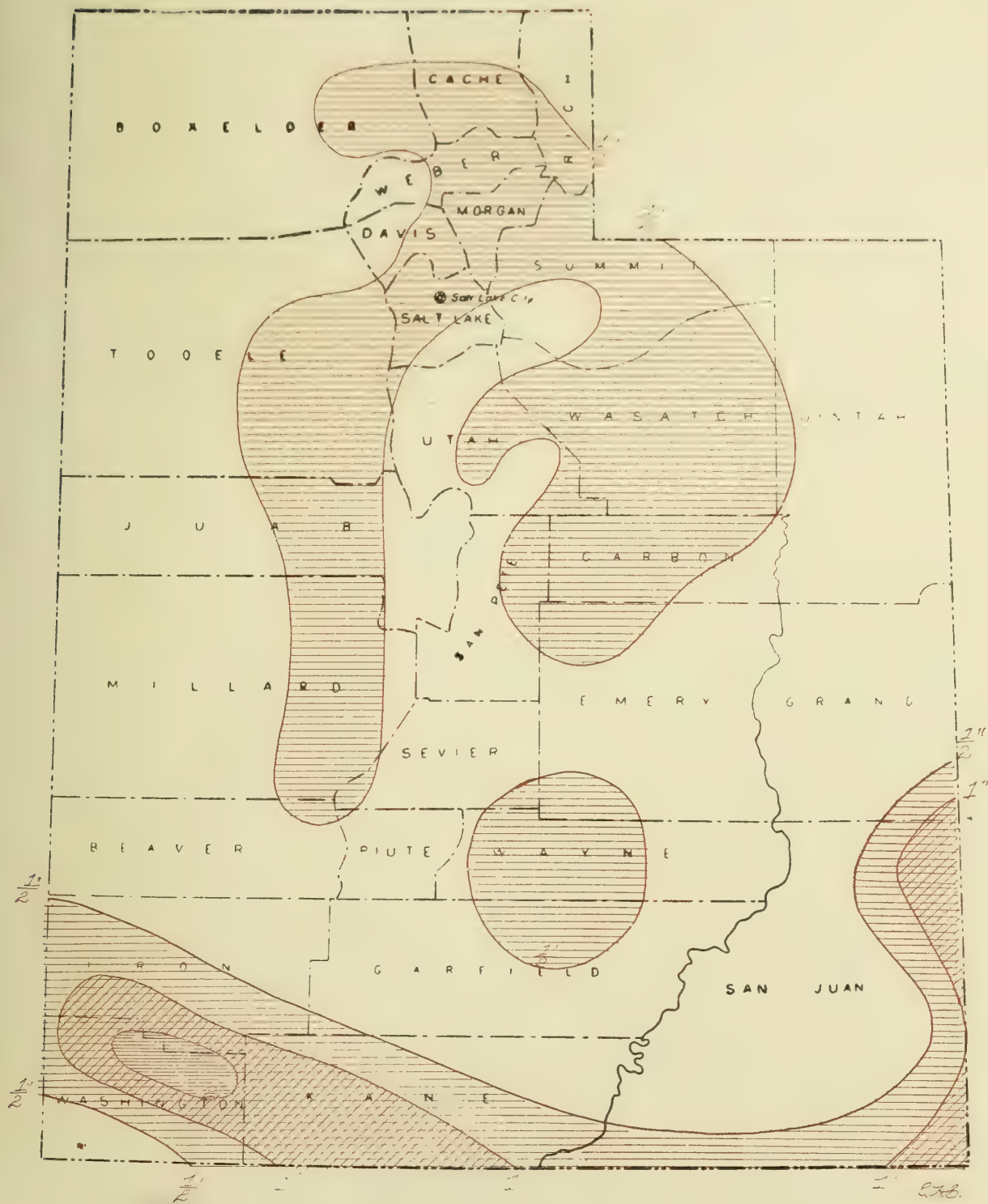


Daily Precipitation, April, 1908.

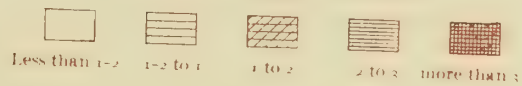
| Stations. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. | | |
|--------------------------------|---------------|-----|-----|-----|---|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|--------|-----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine..... | | | | | | | T. | | .04 | | | | | | | | | | | | T. | | | | | | | | | | | | 0. | |
| Castle Rock..... | | | | | | | .30 | | | | | | | .05 | | | | | | | | .05 | .10 | .10 | .10 | | | T. | | | | | 0. | |
| Corinne..... | | | | | | .11 | | | | | | | | | | | | | | | | .12 | .32 | .08 | | | | | | | | | 0. | |
| Farmington..... | | | | | | | | | | | | | | T. | | | | | | | | .63 | .06 | T. | T. | | | | | | | | 0. | |
| Ft. Duchesne..... | | | | | | | .42 | | | | | | | | | | | | | | | | | | | | | | | | | | to. | |
| Grantsville (near)..... | | | | | | | .45 | | | | | | | | | | | | | | | .30 | | | | | | | | | | | 0. | |
| Hober..... | | | | | | | T. | | | | | | | T. | | | | | | | | .02 | .18 | .05 | .25 | | | | | | | | 0. | |
| Henefer..... | | | | | | | .21 | | | | | | | | .01 | | T. | | | T. | T. | .05 | .41 | .16 | T. | | | T. | | | | | 0. | |
| Huntsville..... | | | | | | .08 | | | | | | | | | .02 | | | | | | | .05 | .30 | .36 | | | | | | | | | 0. | |
| Kelton..... | | | | | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | 0. | |
| Logan..... | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | | 0. | |
| Luein..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Marion..... | | | | | | | T. | | | | | | | | | T. | T. | .02 | | | T. | T. | .02 | .20 | .07 | .11 | | | | | | | 0. | |
| Meadowville..... | | | | | | | .25 | | | | | | | T. | | | | | | | | | .12 | .07 | | | | | | | | | 0. | |
| Millville..... | .03 | | | | | .02 | .14 | | | | | | | | | | | | | | | .09 | .17 | .14 | | | | | | | | | 0. | |
| Morgan..... | | | | | | | | | | | | | | | .05 | | | | | | | | T. | .38 | .35 | | | | | | | | 0. | |
| Ogden No. 1..... | | | | | | | .14 | | | | | | | | | | | | | | | | T. | .18 | .07 | | | | | | | | 0. | |
| Ogden No. 2..... | | | | | | .08 | | | | | | | | | T. | | | | | | T. | .06 | .19 | .02 | | | | | | | | | 0. | |
| Park City..... | | | | | | | | | | | | | | | .05 | | | | | | | | .20 | | .20 | | | | | | | | 0. | |
| Promontory..... | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Randolph..... | | | | | | .21 | T. | | | | | | | | .03 | .07 | T. | | | | | | | | | | | | | | | | 0. | |
| Saltair Bench..... | | | | | | .14 | | | | | | | | | .04 | | | | | | | | | .08 | | | | | | | | | | 0. |
| Salt Lake City..... | | | | | | .02 | .28 | | | | | | T. | | .01 | | T. | | | | T. | | .07 | .42 | T. | T. | T. | | | | | | 0. | |
| Silver Lake..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Snowville..... | | | | | | | | | | | | | | | .05 | | | | | | | | .35 | | | | | | | | | | 0. | |
| Strawberry Valley..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Theodore..... | | | | | | | .70 | | | | | | | T. | T. | .13 | | | | | T. | T. | | | .13 | | | | | | | | 0. | |
| Tooele..... | | | | | | | .50 | | | | | | | | T. | | | | | | | | .15 | | T. | | | T. | | | | | 0. | |
| Vernal (near)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Woodruff..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near)..... | | .16 | | | | | .18 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Black Rock..... | | | | | | | T. | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | |
| Castle Dale..... | | | | | | .60 | .26 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Deseret..... | | | | | | | .30 | T. | | | | | | | | | | | | | | | | .10 | | | | | | | | | 0. | |
| Dragon..... | | | | | | | .37 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Emery..... | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Fillmore..... | T. | | | | | | .48 | T. | | | | | | | | | | | | | | | T. | .01 | .01 | | | | | | | | 0. | |
| Garrison..... | T. | | | | | | .10 | | | | | | | | | | | | | | | | T. | | | | | | | | | | 0. | |
| Government Creek..... | | | | | | | .43 | | | | | | T. | | | | | | | | T. | | | .22 | T. | | | | | | | | 0. | |
| Green River..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Hapah (near)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Kanosh..... | | | | | | | .50 | | | | | | | | | | | | | | | | | .08 | | | | | | | | | 0. | |
| Levan..... | | | | | | | .05 | | | | | | | | | | | | | | | T. | .04 | .27 | | | | | | | | | 0. | |
| Manti..... | | | | | | | .06 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Mount Nebo..... | | | | | | | .01 | .01 | | | | | | | | | | | | | | | T. | .20 | | | | | | | | | 0. | |
| Mount Pleasant..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Nephi..... | | | | | | * | .04 | | | | | | | | | | | | | | T. | T. | T. | .42 | T. | | | | | | | | 0. | |
| Nephi (near)..... | | | | | | | .04 | | | | | | | | | | | | | | | | * | .25 | | | | | | | | | 0. | |
| Oak City..... | | | | | | | .45 | | | | | | | | | | | | | | | | | .12 | | | | | | | | | 0. | |
| Payson..... | | | | | | | .26 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Provo..... | | | | | | | .15 | | | | | | | | .06 | | | | | | | | | | | | | | | | | | to. | |
| Richfield..... | | | | | | .30 | T. | | | | | | | | | | | | | | | | T. | .02 | | | | | | | | | 0. | |
| Scipio..... | | | | | | | .14 | T. | | | | | | | T. | | | | | | | | T. | .20 | .12 | T. | | | | | | | 0. | |
| Soldier Summit..... | | | | | | | | | | | | | | | | .01 | .03 | T. | | | | | | | | | | | | | | | 0. | |
| Sunnyside..... | | | | | | | .20 | .05 | | | | | | | | | | | | | | .02 | | .17 | | | | | | | | | 0. | |
| Thistle..... | | | | .10 | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | 0. | |
| Trout Creek..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Utah Lake Pumping Station..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Wellington..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth..... | | | | | | | T. | T. | | | T. | | | | | | | | | | | .04 | T. | .08 | .06 | | | | | | | | 0. | |
| Beaver..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Cedar City..... | | | | | | | .15 | | | | | | | | | | | | | | | | | .23 | | | | | | | | | 0. | |
| Coyote..... | | | | | | .10 | .15 | | | | | | | | | | | | | | | | | | | | | | | | | | 1. | |
| Enterprise (near)..... | | | | | | | .58 | | | | | | | | | | | | | | | | .98 | | | | | | | | | | 0. | |
| Escalante..... | | | | | | | .37 | | | | | | | | | | | | | | | | .11 | | | | | | | | | | 0. | |
| Experiment Farm..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Frisco..... | | | | | | .10 | .20 | | | | | | | | | | | | | | | | | | | | | | | | | | T. | |
| Grayson..... | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Hite..... | | | T. | | | | .10 | .10 | | | | | | | | | | | | | | | | T. | | | | | | | | | 0. | |
| Kanab..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| La Sal..... | | | T. | .31 | | | | | .51 | | | | | | | | .02 | .10 | | | T. | | .05 | .15 | T. | | | | | | | | 1. | |
| Loa..... | | | | | | | .60 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Marysville (near)..... | T. | | | | | | .01 | | | | | T. | | | | | T. | | | T. | | | .03 | | | | | | | | | | 0. | |
| Millford..... | | | | | | .60 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Minersville..... | | | | | | | | | | | | | | | .01 | .01 | T. | | | | | | | | | | | | | | | | 0. | |
| Monb..... | | | | | | | .18 | | | | | | | | | | | | | | | | | | | | | | | | | | 0. | |
| Modena..... | | | .16 | | | | .03 | .13 | | | | | | | | | | | | | | | .60 | | | | | | | | | | 0. | |
| Panguitch..... | | | | | | | .17 | .16 | | | | | | | | | | | | | | | | | | | | | | | | | 2. | |
| Parowan..... | | | | | | .90 | .15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

† Precipitation incomplete.

TOTAL PRECIPITATION APRIL 1908



SCALE OF SHADES IN INCHES.



Daily Precipitation, April, 1908.

| Stations. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. | |
|--------------------------------|---------------|-----|---|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|--------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine..... | | | | | | | T. | | .04 | | | | | | | | | | | | T. | | | | | | | | | | | | 0.3 |
| Castle Rock..... | | | | | | | .30 | | | | | | | .05 | | | | | | | | .05 | .10 | .10 | .10 | | | T. | | | | | 0.7 |
| Corinne..... | | | | | | .11 | | | | | | | | | | | | | | | | .12 | .32 | .08 | | | | | | | | | 0.6 |
| Farmington..... | | | | | | | | | | | | | | T. | | | | | | | | .63 | .06 | T. | T. | | | | | | | | 0.6 |
| Ft. Duchesne..... | | | | | | | .42 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.4 |
| Grantsville (near)..... | | | | | | | .45 | | | | | | | | | | | | | | | .30 | | | | | | | | | | | 0.7 |
| Hober..... | | | | | | | T. | | | | | | | T. | | | | | | | | .02 | .18 | .05 | .25 | | | | | | | | 0.5 |
| Henefer..... | | | | | | | .21 | | | | | | | .01 | | | T. | | | T. | T. | .05 | .41 | .16 | T. | | | T. | | | | | 0.3 |
| Huntsville..... | | | | | | .08 | | | | | | | | .02 | | | | | | | | | .30 | .36 | T. | | | | | | | | 0.1 |
| Kelton..... | | | | | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | 0.1 |
| Logan..... | | | | | | | | | | | | | | | | | | | | | | .14 | .20 | | | | | | | | | | 0.3 |
| Luein..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Marion..... | | | | | | T. | | | | | | | | T. | T. | T. | .02 | | | | T. | T. | .02 | .20 | .07 | .11 | | | | | | | 0.4 |
| Meadowville..... | | | | | | | .25 | | | | | | | T. | | | | | | | | | T. | T. | | | | | | | | | 0.3 |
| Millville..... | .03 | | | | | .02 | .14 | | | | | | | | | | | | | | | .09 | .17 | .14 | | | | | | | | | 0.7 |
| Morgan..... | | | | | | | | | | | | | | | .05 | | | | | | | | T. | .38 | .35 | | | | | | | | 0.5 |
| Ogden No. 1..... | | | | | | | .14 | | | | | | | | | | | | | | | | T. | .18 | .07 | | | | | | | | 0.3 |
| Ogden No. 2..... | | | | | | .08 | | | | | | | | T. | | | | | | | T. | .06 | .19 | .02 | | | | | | | | | 0.3 |
| Park City..... | | | | | | | | | | | | | | .05 | | | | | | | | | .20 | .02 | .20 | | | | | | | | 0.4 |
| Promontory..... | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.5 |
| Randolph..... | | | | | | | .21 | T. | | | | | | .03 | .07 | T. | | | | | | | | | | | | | | | | | 0.3 |
| Saltair Beach..... | | | | | | | .14 | | | | | | | .04 | | | | | | | | | | .08 | | | | | | | | | 0.2 |
| Salt Lake City | | | | | | .02 | .28 | | | | | T. | | .01 | | T. | | | | T. | | .07 | .42 | T. | T. | T. | | | | | | | 0.8 |
| Silver Lake..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Snowville..... | | | | | | | | | | | | | | | .05 | | | | | | | | .35 | | | | | | | | | | 0.4 |
| Strawberry Valley..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Theodore..... | | | | | | | .70 | | | | | | | T. | T. | .13 | | | | T. | T. | | | .13 | | | | | | | | | 0.9 |
| Tooele..... | | | | | | | .50 | | | | | | | | | T. | | | | | | | .15 | | T. | | | | | | | | 0.6 |
| Vernal (near)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Woodruff..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near)..... | | .16 | | | | | .18 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.3 |
| Black Rock..... | | | | | | | T. | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. |
| Castle Dale..... | | | | | | .60 | .26 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.8 |
| Deseret..... | | | | | | | .30 | T. | | | | | | | | | | | | | | | .10 | | | | | | | | | | 0.4 |
| Dragon..... | | | | | | | .37 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.3 |
| Emery..... | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.3 |
| Fillmore..... | T. | | | | | | .48 | T. | | | | | | | | | | | | | | T. | .01 | .01 | | | | | | | | | 0.3 |
| Garrison..... | T. | | | | | | .10 | | | | | | | | | | | | | | | T. | | | | | | | | | | | 0.1 |
| Government Creek..... | | | | | | | .43 | | | | | | T. | | | | | | | | | | .22 | T. | | | | | | | | | 0.6 |
| Green River..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Ibapah (near)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Kanosh..... | | | | | | .50 | | | | | | | | | | | | | | | | | .08 | | | | | | | | | | 0.5 |
| Levan..... | | | | | | .05 | | | | | | | | | | | | | | | | | .27 | | | | | | | | | | 0.3 |
| Manti..... | | | | | | | .06 | | | | | | | | | | | | | | | | .20 | | | | | | | | | | 0.2 |
| Mount Nebo..... | | | | | | | .01 | .01 | | | | | | T. | | | | | | | | | T. | | | | | | | | | | 0.4 |
| Mount Pleasant..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Nephi..... | | | | | | | .01 | | | | | | | T. | | | | | | | | | T. | T. | T. | .42 | T. | | | | | | 0.4 |
| Nephi (near)..... | | | | | | * | .04 | | | | | | | | | | | | | | | | * | .25 | | | | | | | | | 0.2 |
| Oak City..... | | | | | | | .45 | | | | | | | | | | | | | | | | | .12 | | | | | | | | | 0.5 |
| Payson..... | | | | | | | .26 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.6 |
| Provo..... | | | | | | | .15 | | | | | | | .06 | | | | | | | | | | .34 | .05 | T. | | | | | | | 0.2 |
| Richfield..... | | | | | .30 | | | T. | | | | | | | | | | | | | | | T. | | | | | | | | | | 0.3 |
| Scipio..... | | | | | | | .14 | T. | | | | | | T. | | | | | | | | | .20 | .12 | T. | | | | | | | | 0.7 |
| Soldier Summit..... | | | | | | | | | | | | | | | .09 | | | | | | | | | | | | | | | | | | 0.5 |
| Sunnyside..... | | | | | | | | | | | | | | | .03 | T. | | | | | | | .02 | | | | | | | | | | 0.2 |
| Thistle..... | | | | .10 | | | .20 | .05 | | | | | | | | | | | | | | | .10 | .02 | .17 | | | | | | | | 0.2 |
| Trout Creek..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Utah Lake Pumping Station..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Wellington..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth..... | | | | | | | T. | T. | | | T. | | | | | | | | | | | .04 | T. | .08 | .06 | | | | | | | | 0.1 |
| Beaver..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.1 |
| Cedar City..... | | | | | | | .10 | .15 | | | | | | | | | | | | | | | | .23 | | | | | | | | | 0.3 |
| Coyote..... | | | | | | * | .58 | | | | | | | | | | | | | | | | | | | | | | | | | | 1.5 |
| Enterprise (near)..... | | | | | | | .37 | | | | | | | | | | | | | | | | .98 | | | | | | | | | | 0.4 |
| Escalante..... | | | | | | | | | | | | | | | | | | | | | | | .11 | | | | | | | | | | 0.4 |
| Experiment Farm..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 |
| Frisco..... | | | | | | .10 | .20 | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Grayson..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.5 |
| Hite..... | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.1 |
| Idaho..... | | T. | | | | | .10 | .10 | | | | | | | | | | | | | | | | | | | | | | | | | 0.1 |
| Kanab..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR MAY, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

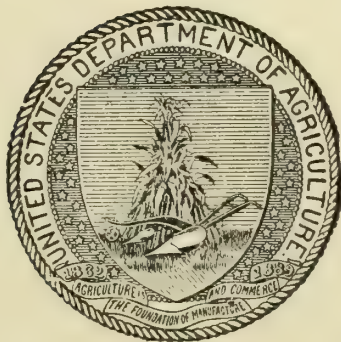
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

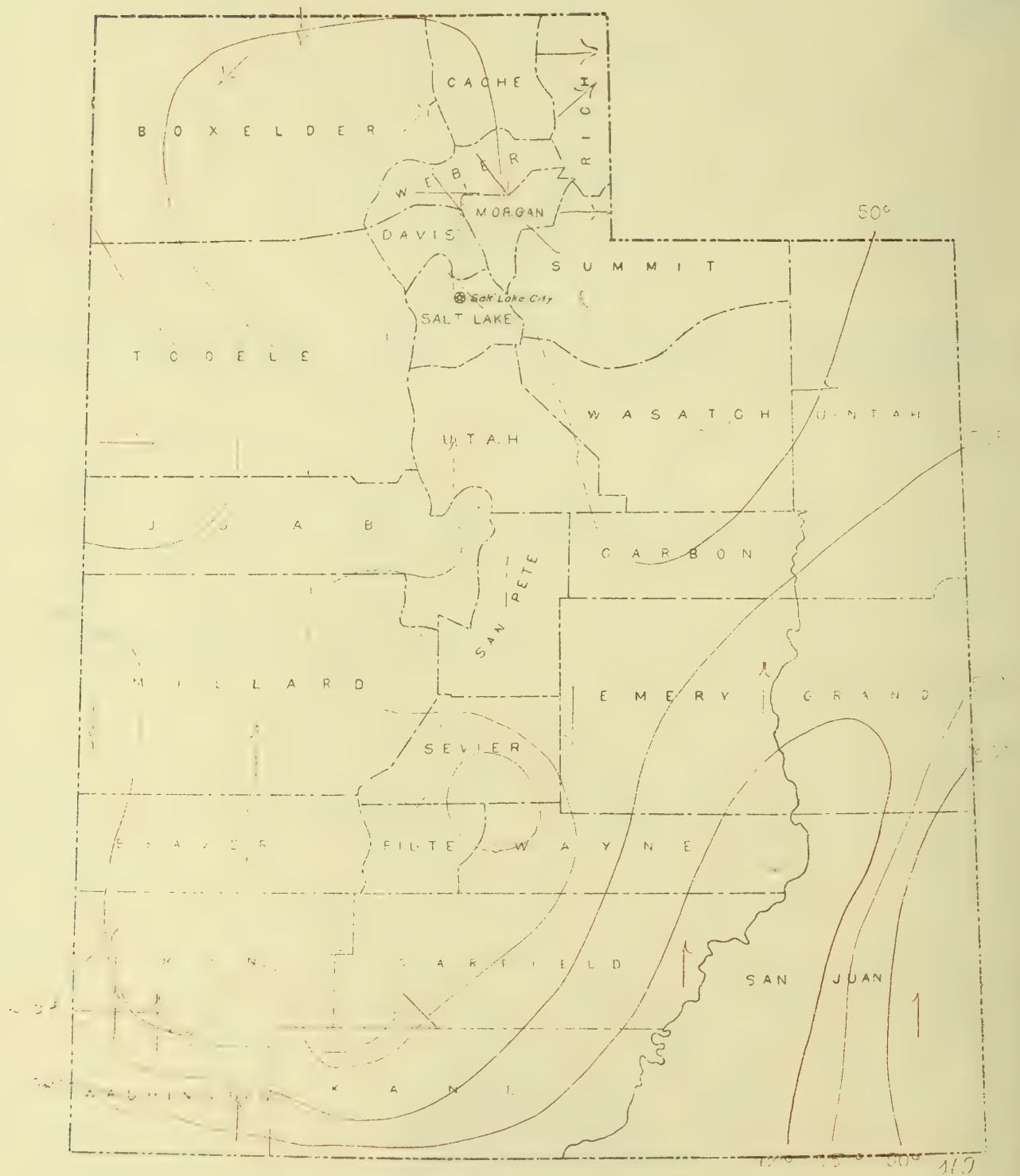
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

JUNE 16, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, MAY, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

Vol. X. SALT LAKE CITY, UTAH, MAY, 1908. No. 5

GENERAL SUMMARY.

The weather for the month was remarkable for the abnormal conditions of temperature and precipitation which obtained. The mean temperature was the lowest for this month during the past 17 years. The average precipitation for the State was nearly twice the normal amount, and was greater than that of any other May, except that of 1898, during the same period of years.

The deficiency in temperature was nearly uniform over all portions of the State, and the temperature was below the normal nearly every day during the month. At a number of stations the maximum temperature was recorded on the 1st, and the remainder it occurred on various dates. The minimum temperature occurred at the majority of the stations on the 9th and 10th. At only a few stations were temperatures in excess of 60° recorded during the month. Considerable damage was done in some localities by frosts or freezing temperatures during the early part of the month.

In contrast to the temperature, the precipitation was very unevenly distributed, the amounts ranging from 0.20 inch in eastern Emery county to 6.99 inches in northern Utah county. The precipitation was heaviest in the counties bordering Great Salt Lake on the east, together with Utah county, and the northern portion of Juab county, over the greater part of which the amount was in excess of four inches. Less than one-half inch of precipitation fell in the valleys of the Green and Colorado rivers, and in some localities along the western border of the State. Thruout the districts of heavy rainfall in the northern portion of the State, precipitation occurred nearly every day of the month. Over the southern portion, the occurrence was less frequent but quite uniformly distributed thruout the month.

Owing to the generally stormy conditions over the northern half of the State the sunshine was greatly deficient in amount, and the cloudiness much in excess, while over the southern part each was nearly normal in amount. No unusual wind velocities occurred over the northern part of the State during the month, and the average velocities were nearly normal. Over the southern half, high winds prevailed on many dates, and a velocity of 60 miles per hour was recorded at Modena on the 19th.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 53 stations, was 50.7°, which was 5.2° below the normal.

The highest local monthly mean was 63.1° at Hite, and the lowest was 42.9° at Loa.

The highest temperature recorded was 90° at St. George on the 26th, and at Hite on the 30th, and the lowest, 11° at Pinto, on the 9th, giving a range for the section of 79°.

The greatest local monthly range was 68° at Richfield, and the least, 41° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 2.35 inches, which was 1.30 inches above the normal for the State.

The greatest monthly amount was 6.99 inches at Alpine, and the least, 0.20 inch, at Emery.

The greatest amount of precipitation in any 24 consecutive hours was 2.30 inches at Alpine on the 3d and 4th.

There was an average of 8 days with 0.01 inch or more of precipitation; 11 over the northern, 8 over the middle, and 4 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 5682; at Modena, 10860; at Grand Junction, Colo., 5508; and at Pocatello, Idaho, 7290.

The maximum velocity at Salt Lake City was 38 miles per hour from the northwest on the 19th; at Modena, 60 miles from the west on the 19th; at Grand Junction, Colo., 42 miles from the south on the 31st; and at Pocatello, Idaho, 44 miles from the southwest on the 7th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 11; partly cloudy days, 9; cloudy days, 11.

Determined from the records of automatic sunshine recorders, Salt Lake City had 60 per cent; Modena 77 per cent; Grand Junction, Colo., 66 per cent; and Pocatello, Idaho, 54 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 56 per cent, the lowest observed reading being 11 per cent on the 1st; at Modena, 63 per cent, the lowest observed reading being 28 per cent on the 18th; at Grand Junction, Colo., 39 per cent, the lowest observed reading being 5 per cent on the 16th; and at Pocatello, Idaho, 59 per cent, the lowest observed reading being 11 per cent on the 1st.

MISCELLANEOUS PHENOMENA.

Aurora.—Mt. Nebo, 29.

Rainbow.—Henefer, 15.

Haze, light.—Ogden No. 2, 2.

Corona, solar.—Nephi (near), 29.

Fog.—Henefer, 6; Ibapah (near), 7, 11, 30, 31; Marion, 5.

Halo, solar.—Marysvale (near), 1, 21; Mt. Nebo, 29; Salt Lake City, 17; Theodore, 20.

Hail.—Farmington, 11, 19; Government Creek, 22, 26; Henefer, 12; La Sal, 13, 23; Levan, 12, 20, 26, 31; Marion, 19, 20, 26; Meadowville, 26, 31; Moroni, 4, 12, 14, 19, 20, 26, 27; Nephi, 3, 13, 14, 27, 31; Nephi (near), 31; Ogden No. 1, 26; Ogden No. 2, 10, 19, 26; Salt Lake City, 12, 26; Snowville, 23; Tropic, 12.

Sleet.—Castle Rock, 12, 13, 19, 20, 27, 28; Government Creek, 9, 15, 19, 26, 31; Heber, 26, 27, 30, 31; Henefer, 9, 26, 31; Levan, 26; Marion, 4, 8, 10, 12, 13, 26, 27, 31; Marysvale (near), 3, 12; Morgan, 20; Moroni, 4, 12, 20, 27, 31; Mt. Nebo, 9, 11; Nephi, 3, 4; Nephi (near), 4, 5, 8, 12, 13; Sunnyside, 3, 20, 27, 31; Theodore, 12; Tooele, 9; Tropic, 3.

Frost.—Annabella, 29; Cedar City, 3, 4, 9, 20; Deseret, 17, 20, 21; Enterprise (near), 8, 18, 19, 26; Ft. Duchesne, 11, 14, 18, 19; Heber, 14, 16; Henefer, 10, 11, 14; Huntsville, 17, 21; Levan, 9, 10; Marion, 10, 17, 21; Marysvale (near), 20, 21; Meadowville, 10, 14; Moab, 5, 10, 18; Modena, 5, 9, 13, 14, 17, 27; Morgan, 10, 16, 21, 23; Parowan, 9; Salt Lake City, 17; Theodore, 13, 24.

Thunderstorms.—Farmington, 11, 12, 19, 20; Government Creek, 21, 22, 25; Heber, 11, 12; Henefer, 12, 30; Hite, 12; Huntsville, 25, 29; Ibapah (near), 10, 26; Levan, 2, 3, 11, 26, 31; Marion, 11, 22; Meadowville, 31; Moab, 12, 13, 22, 23; Modena, 12; Morgan, 12, 20, 30; Moroni, 9, 26; Nephi, 26; Ogden No. 2, 25, 26, 29; Ranch, 22; Randolph, 31; Salt Lake City, 12, 26; Scipio, 11; Sunnyside, 22, 25; Theodore, 12, 22; Tooele, 12, 30; Tropic, 12, 22, 26.

High Winds.—Cedar City, 19; Deseret, 1, 2, 7-10, 14-16, 18-20, 23, 25, 26, 29, 30; Enterprise, near, 2, 11, 30; Ft. Duchesne, 20; Garrison, 1-3, 6-8, 14, 15, 17-19, 23-25, 29, 30; Government Creek, 1, 2, 15, 16, 18, 25, 29; Grayson, 2, 8, 15, 19, 30; Heber, 25; Henefer, 2, 3, 7, 14, 18; Hite, 8, 9, 14-16, 19, 26, 30, 31; Huntsville, 7, 19; Ibapah, near, 1, 6; La Sal, 8, 16, 19, 26, 30, 31; Levan, 2, 7, 14, 15, 19; Marion, 2, 7, 19, 25, 30; Marysvale, near, 2, 7, 8, 15, 16, 18, 19, 25, 26, 30; Meadowville, 2, 8, 9, 13, 16, 19, 26, 27, 30, 31; Modena, 1-3, 7-9, 11-16, 18, 19, 23, 25, 26, 29-31; Mt. Nebo, 2, 7, 15, 16, 18, 19, 25; Nephi, 19; Nephi, near, 3, 7, 16, 23, 25, 30; Ogden No. 2, 2, 3, 18, 19; Park City, 19; Parowan, 2, 7, 18, 19, 25, 30, 31; Pinto, 7, 15, 16, 18, 19, 25, 29; Promontory, 1, 7; Ranch, 2, 8, 30; Randolph, 2, 19; Richfield, 3, 14, 16, 19, 25, 30; Saltair Beach, 2, 8, 19; Salt Lake City, 2-4, 7, 15, 16, 19, 22, 23, 25, 29; St. George, 7, 26, 30; Sunnyside, 8, 30; Theodore, 8-10, 13, 15, 16, 19, 20, 23, 25, 26, 30, 31; Tropic, 3, 4, 8, 9, 11, 14-16, 19, 24, 25, 27.

WATER STAGES.

The level of Great Salt Lake on May 1st was 3.8 feet above zero; on May 15th, 3.8 feet above, and on June 1st, 3.9 feet above.

OBSERVERS' REMARKS.

Alpine.—The weather was cold and very wet.—T. B. Whit.

Castle Rock.—Very cold and stormy weather prevailed during the month.—David Moore.

Cedar City.—Unusually cold weather prevailed during the month.—J. M. Foster.

Corinne.—Generally cloudy weather, with heavy precipitation, prevailed during the month.—A. C. Murphy.

Deseret.—Cold weather and high winds characterized the weather of the month.—S. W. Western.

Emery.—The month has been very dry and windy.—H. Wickman.

Government Creek.—It was the coldest May on record here. The precipitation was also in excess of all previous records for this month.—Walter James.

Heber.—The precipitation was above the normal. The snowstorms occurred during the month. The weather, as a whole, was quite like the average weather conditions for March.—John Crook.

Henefer.—The month, as a whole, was cold and stormy.—William Brewer.

Hite.—High winds, low temperatures and light precipitation were the characteristic features of the weather for the month.—John P. Hite.

Huntsville.—Stormy and unusually cold weather prevailed during the month.—Lars Petersen.

Levan.—The month was very cold and stormy, with variable temperatures.—Wm. Brown.

Marysvale (near).—The month was very windy. The temperature was below normal and the precipitation above.—John W. Henry.

Meadowville.—The past month was very cold, and the precipitation was much above the normal.—J. S. Moffat.

Morgan.—Cold weather prevailed thruout the month, a considerable damage was caused by killing frosts which occurred during the middle portion.—T. R. G. Welch.

Mt. Nebo.—Cool and cloudy weather was general thruout the month. The precipitation was above the normal.—D. Walkey.

COMPARATIVE STATE DATA FOR MAY.

| Year. | Temperature. | | | Average Precipitation |
|-------|--------------|----------|---------|-----------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 54.8 | 98 | 20 | 1.55 |
| 1892 | 54.8 | 96 | 12 | 0.77 |
| 1893 | 58.2 | 98 | 10 | 0.44 |
| 1894 | 57.0 | 99 | 19 | 1.16 |
| 1895 | 51.0 | 104 | 12 | 1.52 |
| 1896 | 60.2 | 104 | 12 | 0.42 |
| 1897 | 53.2 | 94 | 20 | 3.02 |
| 1898 | 52.8 | 96 | 15 | 0.79 |
| 1899 | 52.8 | 101 | 21 | 0.36 |
| 1900 | 59.5 | 98 | 15 | 1.29 |
| 1901 | 59.3 | 99 | 13 | 0.64 |
| 1902 | 56.2 | 100 | 15 | 1.60 |
| 1903 | 53.3 | 96 | 15 | 1.71 |
| 1904 | 56.2 | 100 | 15 | 1.77 |
| 1905 | 52.3 | 96 | 18 | 1.98 |
| 1906 | 55.1 | 96 | 13 | 1.98 |
| 1907 | 52.7 | 97 | 16 | 2.04 |
| 1908 | 50.7 | 99 | 11 | 2.35 |

CLIMATOLOGICAL DATA, MAY, 1908.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit | | | | | | Precipitation, in inches | | | | | | Sky | | Observations. | | |
|------------------|------------|------------------|--------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|---------------------------|--------------------------|--------------------|----------------------------|---------------|---------------------|-------------------------------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelting. | Days with ice or frozen. | Number clear days. | Number partly cloudy days. | | Number cloudy days. | Prevailing direction of wind. |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,000 | 12 | | | | | | | 6.99 | 4.72 | 2.30 | | | | | | | | T. B. Whitby. |
| Alpine Rock | Summit | | 4 | | | | | | | 3.69 | | 0.70 | | | | | | | | David Moore. |
| Alpine | Boxelder | 4,240 | 38 | 54.6 | -0.1 | 87 | 2 | 20 | 10 | 46 | 3.81 | 2.53 | 0.82 | 15.9 | 13 | 3 | 17 | 11 | W. | Agent So. Pacific R. R. |
| Alpine | Davis | 4,267 | 8 | 51.8 | -4.5 | 80 | 1 | 31 | 17 | 44 | 5.18 | 2.45 | 1.10 | 0.3 | 10 | 7 | 14 | SW. | Charles Boylin. | |
| Alpine | Uinta | 5,000 | 20 | 50.0 | -0.0 | 70 | *8 | 26 | 5 | 50 | 0.18 | 0.08 | 0.08 | | 3 | 17 | 0 | 4 | W. | Post Surgeon. |
| Alpine | Tooele | | 2 | | | | | | | | | | | | | | | | | A. J. Fraser. |
| Alpine | Wasatch | 5,666 | 15 | 48.1 | -4.3 | 76 | *1 | 25 | 17 | 46 | 3.25 | 0.90 | 0.58 | | 15 | 8 | 10 | 13 | S. | John Crook. |
| Alpine | Summit | 5,301 | 9 | 48.4 | 3.5 | 78 | 8 | 22 | 10 | 49 | 3.21 | +1.59 | 0.68 | 4.0 | 15 | 7 | 13 | 11 | DW. | William Brewer. |
| Alpine | Weber | 5,100 | 13 | | | | | | | | 3.18 | 1.06 | 0.92 | 0.0 | 11 | 2 | 13 | 10 | DW. | Lars Petersen. |
| Alpine | Boxelder | 4,230 | 30 | 51.4 | -0.2 | 80 | 7 | 23 | 10 | 40 | 1.25 | +0.60 | 0.50 | | 0 | 4 | 12 | 15 | ne. | Agent So. Pacific R. R. |
| Alpine | Cache | 4,507 | 17 | 49.8 | -5.0 | 76 | 1 | 31 | 10 | 29 | 3.71 | +1.55 | 1.35 | | 12 | | | | W. | Agricultural College. |
| Alpine | Boxelder | | 3 | 50.2 | | 81 | 2 | 23 | 10 | 50 | 0.47 | | 0.10 | | 5 | | | | W. | C. J. Burke. |
| Alpine | Summit | | 3 | | | | | | | | 4.18 | | 1.05 | 14.0 | 5 | 0 | 7 | 24 | S. | J. Woolstenhulme. |
| Alpine | Rich | 6,200 | 9 | 46.2 | -3.2 | 74 | 7 | 21 | 10 | 38 | 2.39 | +0.71 | 0.75 | 2.2 | 8 | 15 | 5 | 11 | W. | J. B. Moffat. |
| Alpine | Cache | | 13 | | | | | | | | 3.66 | 1.07 | 0.86 | | 17 | | | | W. | Fred Yates. |
| Alpine | Morgan | 5,080 | 5 | 40.8 | | 80 | *7 | 25 | 10 | 47 | 4.16 | 0.80 | | | 13 | 12 | 9 | 10 | SW. | T. R. G. Welch. |
| Alpine | Weber | 4,310 | 7 | 53.6 | -3.5 | 81 | 1 | 33 | *10 | 33 | 4.92 | 1.88 | 1.24 | | 12 | 10 | 7 | 8 | DW. | Enoch Farr. |
| Alpine | Weber | 4,310 | 38 | 57.2 | -4.1 | | | | | | 5.02 | 3.48 | 1.50 | | 14 | 7 | 10 | 14 | W. | W. H. Chevers. |
| Alpine | Summit | 7,800 | 11 | 44.0 | -5.3 | 70 | *1 | 17 | 10 | 38 | 1.57 | 0.10 | 0.53 | | 7 | 15 | 7 | 9 | W. | F. W. Jones. |
| Alpine | Boxelder | | | | | | | | | | 1.71 | | 1.40 | | 9 | | | | W. | F. C. Houghton. |
| Alpine | Rich | | 3 | | | | | | | | 1.00 | | 0.47 | | 5 | 17 | | 14 | SW. | Wm. Rex. |
| Alpine | Salt Lake | | 4 | 51.0 | | 75 | *7 | 34 | 18 | 38 | 4.08 | | 1.12 | | 15 | | | | W. | E. J. Bench. |
| Alpine | Salt Lake | 4,366 | 34 | 51.8 | -6.5 | 78 | 1 | 30 | 9 | 35 | 5.70 | 3.81 | 1.53 | 3.0 | 13 | 10 | 10 | 11 | se. | Section Center. |
| Alpine | Salt Lake | | 1 | | | | | | | | | | | | | | | | W. | N. J. Ferhaff. |
| Alpine | Boxelder | 4,366 | 18 | 48.2 | -6.4 | 79 | 1 | 20 | 10 | 52 | 3.07 | +1.78 | 0.56 | | 12 | 0 | 19 | 12 | n. | Joseph Robbins. |
| Alpine | Wasatch | | 2 | | | | | | | | | | | | | | | | W. | S. A. Chivers. |
| Alpine | Wasatch | 5,507 | 2 | 48.0 | | 76 | 1 | 25 | 10 | 43 | 0.45 | | 0.24 | 0.4 | 4 | 2 | 13 | 16 | W. | M. M. Smith. |
| Alpine | Tooele | 4,900 | 12 | 51.8 | -4.2 | 81 | 1 | 31 | *9 | 37 | 5.48 | 3.13 | 1.00 | | 13 | 5 | 8 | 18 | S. | I. J. Elkington. |
| Alpine | Uinta | | 13 | | | | | | | | | | | | | | | | W. | Joab Collier. |
| Alpine | Rich | 6,500 | 11 | | | | | | | | | | | | | | | | W. | C. G. Youngberg. |
| Averages | | | | 50.4 | 5.4 | | | | | | 3.27 | +2.09 | | 4.7 | 11 | 9 | 10 | 12 | W. | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | |
| Albion (near) §. | Sevier | | 2 | | | | | | | | 1.16 | | 0.32 | 2.0 | 0 | | | | S. | J. W. Fairbanks. |
| Albion | Millard | 4,872 | 8 | | | | | | | | 1.59 | -0.41 | 0.70 | | 5 | 15 | 10 | 6 | S. | E. H. Peterson. |
| Albion | Emery | 5,500 | 9 | 52.0 | 1.4 | 80 | | 29 | *11 | 45 | 1.25 | +0.92 | 0.70 | | 2 | 12 | 16 | 1 | n. | James Jeffers. |
| Albion | Millard | 4,541 | 14 | 50.4 | -6.3 | 79 | | 25 | 10 | 46 | 1.10 | -0.04 | 0.50 | | 5 | 8 | 6 | 17 | n. | S. W. Western. |
| Albion | Uinta | | | | | | | | | | | | | | | | | | n. | H. J. Cooper. |
| Albion | Emery | 6,260 | 8 | 54.2 | -4.5 | 76 | *21 | 28 | 12 | 46 | 0.20 | -0.22 | 0.20 | 2.0 | 1 | 1 | 5 | 45 | n. | H. C. Wickman. |
| Albion | Millard | 5,100 | 18 | 53.2 | -4.3 | 82 | 29 | 28 | 10 | 42 | 4.15 | +2.69 | 1.48 | | 9 | | | | n. | J. J. Starley. |
| Albion | Millard | 5 | 50.8 | | | 78 | *1 | 25 | 18 | 50 | 0.47 | | 0.25 | | 3 | 11 | 6 | 12 | n. | E. M. Smith. |
| Albion | Tooele | 5,277 | 8 | 48.6 | -5.2 | 76 | *1 | 25 | 10 | 38 | 3.07 | +1.25 | 0.90 | | 11 | 9 | 13 | S. | Walter James. | |
| Albion | Emery | 4,080 | 11 | 59.1 | -4.5 | 88 | *18 | 32 | 11 | 53 | 0.34 | -0.29 | 0.25 | | 22 | 6 | 3 | 8 | S. | J. D. Bitch. |
| Albion | Tooele | 7,500 | 2 | 39.6 | | 69 | *5 | 15 | 8 | 34 | 3.58 | | 1.07 | 26.7 | 10 | 7 | 4 | 9 | W. | Mrs. J. S. Lawton. |
| Albion | Millard | | 1 | | | | | | | | 3.60 | | 1.24 | | 11 | | | | W. | Geo. Crane. |
| Albion | Juab | 5,010 | 18 | 50.0 | -4.9 | 76 | 1 | 27 | 10 | 38 | 4.35 | -2.74 | 1.32 | 12.0 | 9 | 11 | 7 | 13 | SW. | William Brown. |
| Albion | Sanpete | 5,575 | 14 | | | | | | | | 2.81 | | 0.48 | 2.5 | 15 | 1 | 16 | 14 | S. | Louis C. Kjar. |
| Albion | Sanpete | | | | | | | | | | 2.42 | -1.08 | 0.73 | | 13 | 8 | 13 | 10 | S. | B. F. Eliason. |
| Albion | Utah | 4,650 | 7 | 53.4 | -2.6 | 83 | 1 | 29 | 10 | 43 | 2.15 | +0.96 | 1.44 | | 13 | | | | W. | D. C. Walkey. |
| Albion | Sanpete | 5,859 | 16 | | | | | | | | 4.40 | | 1.02 | 6.0 | 12 | 14 | 7 | 10 | SW. | Miss Olive E. Peck. |
| Albion | Juab | | 3 | | | | | | | | 3.64 | | 1.15 | | 15 | 4 | 15 | 12 | SW. | A. Madsen. |
| Albion | Utah | | 3 | 51.6 | | 80 | 25 | 38 | 17 | 42 | 3.29 | | 0.74 | | 8 | 13 | 4 | 14 | SW. | S. R. Boswell. |
| Albion | Utah | 4,637 | 3 | | | | | | | | 5.52 | | 0.99 | 4.0 | 12 | 4 | 13 | 14 | SW. | J. Finlinson. |
| Albion | Utah | 4,532 | 16 | 52.6 | -5.1 | 81 | 7 | 28 | 10 | 41 | 3.48 | -1.85 | 0.75 | 2.0 | 14 | 5 | 10 | 10 | SW. | D. L. Coombs. |
| Albion | Sevier | 5,350 | 18 | 49.4 | -7.7 | 87 | 1 | 19 | 20 | 61 | 0.41 | -0.03 | 0.16 | | 4 | 9 | 0 | 15 | SW. | B. Y. University. |
| Albion | Millard | 5,260 | 13 | 49.2 | -4.7 | 78 | 7 | 23 | *17 | 47 | 3.56 | +2.12 | 1.86 | | 5 | 8 | 18 | SW. | J. J. Jensen. | |
| Albion | Utah | 7,474 | 16 | | | | | | | | 1.74 | | 0.60 | 14.0 | 6 | | | | SW. | Thomas Memmott. |
| Albion | Carbon | | 3 | | | | | | | | 1.66 | -0.64 | 0.92 | | 6 | 4 | 14 | 13 | SW. | Agent Rio Grande R. R. |
| Albion | Utah | 5,075 | 16 | 54.1 | -0.8 | 82 | 31 | 23 | 4 | 47 | 1.66 | -0.64 | 0.92 | | 6 | 4 | 14 | 13 | SW. | Henry Cullum. |
| Albion | Juab | | 3 | | | | | | | | 4.59 | | 1.15 | | 13 | 5 | 5 | 1 | SW. | Agt. Rio Grande W. R. R. |
| Albion | Utah | | 3 | | | | | | | | 0.40 | -0.10 | 0.40 | 4.0 | 1 | | | | SW. | Mrs. W. A. Edwards. |
| Albion | Carbon | 5,540 | 9 | 45.4 | -10.8 | 72 | *1 | 26 | *9 | 42 | 0.40 | -0.10 | 0.40 | 4.0 | 1 | | | | SW. | W. A. Knight. |
| Averages | | | | 50.8 | -5.0 | | | | | | 2.50 | -1.18 | | 7.3 | 8 | 9 | 9 | 13 | SW. | Melville Branch. |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | |
| Albion | San Juan | 4,800 | 8 | | | | | | | | 2.34 | | 0.90 | 18.1 | 7 | 10 | 15 | 6 | SW. | Miss S. Hubert. |
| Albion | Beaver | | 3 | 47.3 | | 74 | 1 | 21 | 20 | 41 | 2.34 | | 0.90 | 18.1 | 7 | 10 | 15 | 6 | SW. | James Connell. |
| Albion | Iron | 4 | 51.4 | | | 75 | *2 | 26 | 9 | 37 | 1.10 | | 0.55 | | 6 | 9 | 14 | 8 | ne. | J. M. Foster. |
| Albion | Garfield | | 7 | 47.8 | -0.3 | 76 | *18 | 23 | 9 | 44 | 0.90 | +0.20 | 0.40 | 6.0 | 3 | | | | SW. | Mrs. E. Clayton. |
| Albion | Washington | | 2 | | | | | | | | 1.37 | | 0.81 | T. | 3 | 16 | 8 | 7 | S. | John Day. |
| Albion | Garfield | 5,700 | 8 | 51.2 | -6.0 | 76 | 1 | 30 | *3 | 42 | 0.63 | +0.17 | 0.60 | | 2 | 20 | 0 | 11 | SW. | Geo. H. Barney. |
| Albion | Beaver | 7,318 | 14 | 49.6 | -6.2 | 78 | 29 | 24 | 9 | 39 | 1.58 | +0.64 | 0.53 | 12.0 | 4 | | | | SW. | E. R. Smyth. |
| Albion | San Juan | | 3 | 51.0 | | 80 | 30 | 25 | 8 | 45 | 0.63 | | 0.38 | | 2 | 20 | 3 | 8 | S. | Joseph A. Lyman. |
| Albion | Garfield | 3,000 | 9 | 63.1 | -5.9 | 90 | 30 | 40 | *4 | 45 | 0.28 | -0.36 | 0.21 | | 3 | 20 | 9 | 2 | S. | J. P. Hite. |
| Albion | Kane | 4,925 | 8 | | | | | | | | 0.91 | | 0.43 | | 6 | 10 | 16 | 3 | SW. | E. M. Ford. |
| Albion | San Juan | 7,000 | 8 | 47.6 | | 73 | *18 | 24 | 5 | 6 | 0.91 | | 0.43 | | 6 | 10 | 16 | 3 | SW. | Mrs. G. W. Carpenter. |
| Albion | Wayne | 7,000 | 16 | 42.9 | -6.7 | 72 | 18 | 18 | 10 | | | | | | | | | | | |

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NORTHERN.

MINDL, R.

Back Rock

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Experiment 1

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COTTRELL, R. N.

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Citrus

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Experiment 1

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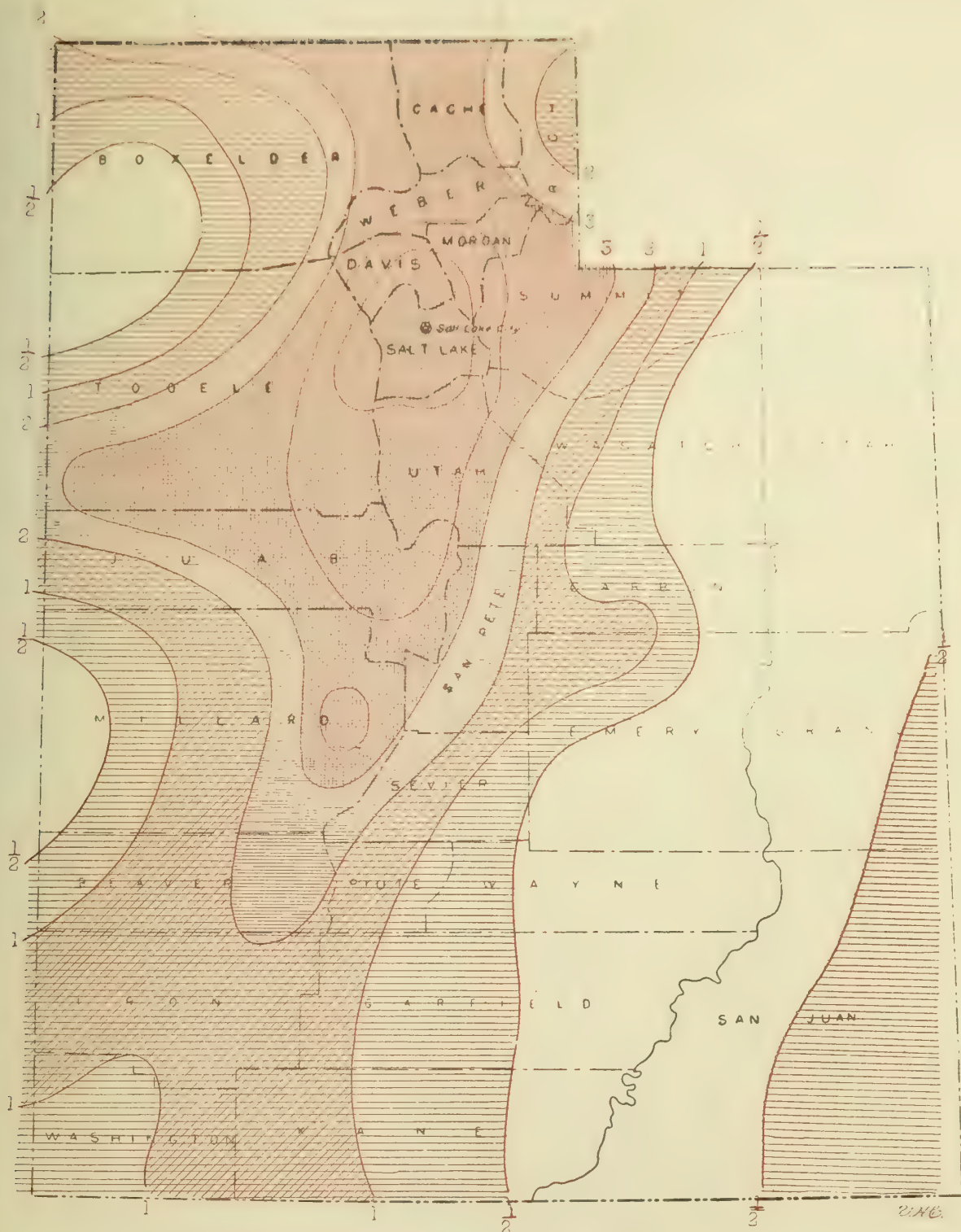
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Index

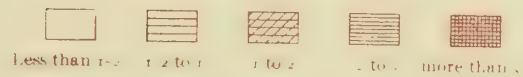
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pic

TOTAL PRECIPITATION MAY, 1905



SCALE OF SHADES IN INCHES.



Daily Precipitation, May, 1908.

| Stations | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------|------|------|-----|----|-----|-----|------|------|-----|-----|------|------|-----|-----|-----|-----|----|-----|------|------|-----|-----|-----|-----|------|------|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | | | 2.30 | | | | | .46 | | | T. | .41 | 1.15 | | | | | | | .67 | | | | | T. | .70 | .54 | .27 | | | .49 | |
| Castle Rock | | .52 | .62 | | | | | .45 | | | | .53 | .22 | | .05 | | | | | .10 | .70 | | T. | .05 | | .30 | .05 | .04 | | | .46 | |
| Corinne | | .12 | | | | | | .25 | .15 | | | .03 | .05 | .17 | .20 | | | | | .03 | .60 | | | | .82 | .24 | .28 | | | | .30 | |
| Farmington | | | T. | .02 | | | .35 | .85 | | | .50 | .25 | | T. | T. | | | | | .63 | .60 | | | | T. | 1.10 | .85 | .03 | | | | |
| Ft. Duchesne | | | | | | | | | | | | .08 | .05 | | | | | | | | | | | | | | .05 | | | | | |
| Grantsville (near) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heber | | | .58 | .06 | | | | .35 | | | | .10 | .52 | .15 | T. | | | | | .08 | .10 | | | | | .25 | .05 | .04 | | | .30 | |
| Henefer | | .60 | .15 | T. | | | .08 | .17 | .01 | | .65 | .14 | T. | .02 | | | | | | .20 | .68 | | T. | .02 | | .22 | .06 | | | .05 | .20 | |
| Huntsville | | .25 | | | | | .21 | | | | .24 | .41 | | .13 | | .07 | | | | .92 | T. | | | | .40 | .11 | .02 | | | .02 | .42 | |
| Kelton | | | | | | | | | | | | | | | | .10 | T. | | | | | | | .25 | .50 | T. | | * | | | .25 | |
| Logan | | * | .17 | | | | | * | .59 | | * | .26 | | .23 | | | | | | * | 1.35 | | | | | .71 | * | .40 | | | | |
| Lucin | | | | | | | | | | | | | | | .05 | .07 | T. | T. | | .10 | | | T. | | T. | T. | T. | | | .10 | | |
| Marion | | .60 | 1.05 | .10 | T. | | .07 | .70 | .02 | | .15 | .30 | T. | .03 | | | | | .20 | .17 | | T. | .02 | | T. | .45 | .15 | T. | | T. | .17 | |
| Meadowville | | | .75 | | | | | | | | T. | | .30 | .40 | .10 | | .05 | | T. | .17 | | T. | | | T. | .45 | .36 | | | | .17 | |
| Millville | | .26 | .06 | | | | .13 | .54 | | .05 | .03 | .16 | .03 | .18 | .08 | | | | .29 | .86 | | | | | .02 | .43 | .24 | .02 | | | .17 | |
| Morgan | | .40 | 1.10 | | | | .25 | .30 | | | .80 | .23 | | .06 | T. | | | | .25 | .67 | | | | | | .43 | .36 | | | .23 | .30 | |
| Ogden No. 1 | | .02 | | | | | .12 | .28 | | | .09 | .09 | | .06 | | | | | .51 | 1.24 | | | | | | .42 | .51 | | | | 1.03 | |
| Ogden No. 2 | | .05 | T. | | | | .19 | .22 | T. | | .01 | .20 | .04 | .07 | .04 | | .03 | | .78 | .57 | | T. | T. | | .36 | .48 | .51 | | T. | T. | 1.50 | |
| Park City | | .39 | | | | | | .10 | | | | | .53 | .17 | | | | | .08 | .28 | | | | | .02 | .06 | .03 | | | | 1.20 | |
| Promontory | | | | | | | .02 | .20 | | .10 | | | .04 | | | | | | .04 | .02 | | | | | | | .08 | | | | | |
| Randolph | | | | | | | | | | | | | | .04 | | | | | | | | | | | | | .03 | | | | 1.20 | |
| Saltair Beach | | .35 | .47 | | | | .19 | .63 | | | .12 | .18 | | .01 | .07 | | | | .18 | .17 | .02 | .07 | | | | .75 | 1.12 | .11 | | .17 | .03 | |
| Salt Lake City | | .18 | .21 | | | | .52 | .36 | | T. | .53 | .27 | T. | | T. | | | | .26 | .90 | | | | | .55 | .98 | .65 | .14 | | T. | .21 | |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | | | | | | | | .12 | | | | | | .18 | .56 | .04 | | | | .25 | .08 | .06 | | .25 | | .50 | .53 | | | | .50 | |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | | | T. | .24 | T. | | | | | T. | .15 | | T. | | | | | | | T. | | | | | | T. | T. | T. | | | T. | |
| Tooele | | .15 | 1.00 | | | | .50 | .84 | | T. | .32 | | .38 | T. | T. | .03 | T. | | | .22 | .38 | | T. | .02 | | T. | T. | .62 | .03 | | .27 | |
| Vernal (near) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodruff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | | | .14 | | | | | .08 | | T. | .32 | .28 | | | | | | | | | | | | | | T. | .26 | T. | | .08 | | |
| Black Rock | | .70 | | | | | | .10 | | | | .30 | | | | | | | | | | | | | | .06 | | | | | | .43 |
| Castle Dale | | .70 | | | | | | | | | | .55 | | | | | | | | | | T. | | | | | | | | | | |
| Deseret | | .20 | T. | | | | | | | | .10 | .10 | T. | | | | | | | | | | T. | | | T. | .20 | | | | | .50 |
| Dragon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emery | | T. | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | |
| Fillmore | | .70 | .35 | | | | | | 1.48 | | | .62 | .09 | T. | | | | | | .07 | | | | | | | .41 | .02 | | | | .41 |
| Garrison | | T. | | | | | | | | .08 | .14 | | | | | | | | | | | | | | | | | | | | T. | .25 |
| Government Creek | | .23 | | | | | | .15 | | | .08 | .35 | | T. | | T. | | | .18 | .12 | T. | .23 | | T. | | T. | .90 | .28 | .03 | | | .50 |
| Green River | | | .25 | | | | | | | | | .09 | | | | | | | | | | | | | | | | | | | | |
| Idapah (near) | .05 | .71 | | | | | .19 | | | T. | .08 | .10 | | | | | | | | | | | | | | T. | .68 | .17 | .25 | .28 | 1.07 | |
| Kanosh | | 1.24 | .05 | | | .01 | | 1.00 | | | | .55 | .10 | | | | | | | | .02 | | | | .24 | .23 | | | | | .22 | |
| Levan | | * | 1.32 | | | | .08 | .80 | | | | * | 1.11 | .02 | | | | | | T. | .07 | | .03 | | | .27 | .04 | | | | .64 | |
| Manti | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moroni | | .14 | .32 | | | | .04 | .34 | | .03 | .15 | .26 | .14 | | | | | | .09 | .07 | | .05 | | | | .48 | .42 | .04 | | | .24 | |
| Mount Nebo | | .73 | .35 | | | | .11 | .19 | | .06 | .23 | .35 | T. | | | | | | .02 | .01 | | | | | T. | .06 | .13 | .03 | | | .15 | |
| Mount Pleasant | | | 1.44 | | | | | .32 | | | .07 | .27 | | | | | | | | | | .05 | | | | | | | | | | |
| Nephi | | .30 | 1.02 | | | | | .74 | | | .49 | .59 | .05 | | | | | | .01 | .02 | | | | | | .36 | .26 | .02 | | | .60 | |
| Nephi (near) | | * | 1.07 | | | | * | .49 | .02 | | * | 1.15 | | | | | | | | | .05 | | | | * | .29 | * | .03 | .03 | * | .51 | |
| Oak City | | | .74 | | | | .20 | .72 | | .02 | .30 | .12 | | | | | | | | | | | | | | .40 | .16 | | | | .05 | |
| Payson | | .62 | .70 | | | T. | .26 | .80 | | | .99 | .28 | T. | .03 | | | | | T. | .06 | | | | | | .83 | .46 | .12 | | | .37 | |
| Provo | | .21 | .01 | | | | .33 | .01 | .01 | | .57 | .53 | | | | | | | .07 | .14 | | .01 | | | | .75 | .46 | .18 | | | .20 | |
| Richfield | | .12 | .08 | | | | | | | | .05 | | | | | | | | | | | | | | | .16 | .16 | | | | | |
| Scipio | | .40 | T. | | | T. | T. | T. | 1.86 | | T. | .07 | .09 | | | | | | T. | .04 | T. | T. | | | | .35 | .05 | | | | .70 | |
| Soldier Summit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside | | .10 | .50 | | | | | | | | | .60 | | | | | | | | | | | | | | | | | | | | |
| Thistle | | .92 | .08 | | | | .01 | | | | | .45 | | | | | | | | | | | | | | | .10 | .10 | | | .40 | |
| Trout Creek | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah Lake Pumping Station | .25 | .37 | .29 | | | | | | | .23 | | 1.15 | .07 | | | | | | .42 | T. | | | | .25 | | | 1.03 | | | | .53 | |
| Wellington | | | .40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | | .90 | .15 | | T. | | | | | T. | .76 | | | .14 | .18 | | | | | T. | | | | | | | T. | .09 | | | | .12 |
| Cedar City | | .29 | | | | | | .21 | | | | | .55 | | | | | | | | | .05 | | | | | .04 | | | .02 | | |
| Coyote | | .40 | | | | | | .20 | | | | .30 | | | | | | | | | | | | | | | | | | | | |
| Enterprise (near) | | .43 | | | | | | | | | | .81 | | | | | | | | | | | | | | | | | | .13 | | |
| Escalante | | .60 | | | | | | | | | .03 | | | | | | | | | | | | | | | | | | | | | |
| Frisco | | .53 | | | | | | .34 | | | | .34 | | | | | | | | | | | | | | | | | | | | .37 |
| Grayson | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hite | | .01 | .21 | T. | | | | | | | | T. | .06 | | | | | | | | | | .38 | .25 | | | | | | | T. | |
| Kanab | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| La Sal | | .06 | .04 | | | | | | | | | | .31 | | | | | | | | | | | .43 | .01 | | .06 | | | | | |
| Lee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marysville (near) | | .39 | T. | | | | | | | T. | .25 | | T. | .17 | .18 | | | | .05 | | | | .10 | | | | .05 | | T. | | .06 | |
| Millford | | .20 | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | | | |
| Minersville | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moab | | | | .01 | | | | | | | | | .08 | .12 | | | | | | | | | | | | | | | | | | |
| Modena | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

† Precipitation incomplete.

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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JUNE, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

JULY 18 1908

MEAN TEMPERATURES AND PREVAILING WINDS, JUNE, 1908.



U. S. DEPARTMENT OF AGRICULTURE,
CLIMATOLOGICAL SERVICE

OF THE
WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, JUNE, 1908. No. 6

GENERAL SUMMARY.

The month was the coldest and wettest June, except that of 1907, in the past 17 years. The mean temperature for June, 1907, was 0.8° colder, and the precipitation was 0.13 inch greater than for June, 1908.

The deficiency in temperature extended thruout all portions of the State, but was greatest for the northern section. There were only a few days during the month having a mean temperature above the normal, and only two stations recorded a temperature in excess of 100°. The latter half of the month was much warmer than the earlier part. The maximum temperatures occurred at nearly all stations on the 24th and 25th, while the minimum temperatures were generally recorded during the first week of the month. Frosts and freezing temperatures caused considerable damage in some localities during the first half of the month.

The precipitation was very unevenly distributed. It was much in excess of the normal amount over the northern and middle sections, and deficient over the southern section, where less than one-half inch occurred. Four stations in the southern counties had no rainfall, and only a trace occurred at a number of others. The heaviest precipitation in the State was over a limited area along the eastern shore of Great Salt Lake, where more than three inches of rain was recorded during the month. Over the northern portion of the State, rain fell every day during the first week, and moderately heavy rains were quite general near the middle of the month. From this time until the close of the month very little precipitation occurred. Only eight scattered showers occurred over the southern section during the entire month.

Abundant sunshine prevailed except during the first week, when there was an excess of cloudy weather over the northern portion of the State. An unusually high wind velocity of 68 miles per hour was recorded at Modena on the 2d, and caused some damage to property in that vicinity. Comparatively light winds were general elsewhere thruout the State.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 59.6°, which was 5.7° below the normal.

The highest local monthly mean was 74.6° at Hite, and the lowest was 51.0° at Hapah, near.

The highest temperature recorded was 104° at St. George on the 25th, 26th and 30th, and the lowest, 20° at Tropic, on the 4th, giving a range for the section of 84°.

The greatest local monthly range was 71° at Richfield, and the least, 44° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 69 stations, was 1.09 inches, which was 0.97 inch above the normal for the State.

The greatest monthly amount was 3.47 inches at Farmington, and there was no precipitation at several stations.

The greatest amount of precipitation in any 24 consecutive hours was 1.41 inches at Logan on the 16th and 17th.

There was an average of 6 days with 0.01 inch or more of precipitation; 9 over the northern, 5 over the middle, and 2 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4764; at Modena, 8818; at Grand Junction, Colo., 4859; and at Pocatello, Idaho, 5633.

The maximum velocity at Salt Lake City was 30 miles per hour from the southwest on the 13th; at Modena, 68 miles from the southwest on the 2d; at Grand Junction, Colo., 25 miles from the west on the 12th; and at Pocatello, Idaho, 37 miles from the southwest on the 10th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 16; partly cloudy days, 8; cloudy days, 6.

Determined from the records of automatic sunshine recorders, Salt Lake City had 72 per cent; Modena 87 per cent; Grand Junction, Colo., 83 per cent; and Pocatello, Idaho, 64 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 52 per cent, the lowest observed reading being 20 per cent on the 10th; at Modena, 37 per cent, the lowest observed reading being 9 per cent on the 19th and 27th; at Grand Junction, Colo., 29 per cent, the lowest observed reading being 5 per cent on the 10th; and at Pocatello, Idaho, 56 per cent, the lowest observed reading being 16 per cent on the 25th.

MISCELLANEOUS PHENOMENA.

Haze, light.—Randolph, 20.

Rainbow.—Henefer, 6, 7, 13, 18.

Corona, Lunar.—Nephi, near, 5.

Sleet.—Castle Rock, 3.

Halo, lunar.—Tropic, 11.

Fog.—Henefer, 8; Ibapah, 2.

Snow.—Marion, 4; Promontory, 1; Randolph, 17.

Halo, solar.—Marysvale, 30; Modena, 5; Mt. Nebo, 20, 30.

Corona, solar.—Nephi, near, 6, 15, 30; Theodore, 5, 6, 29, 30.

Frost.—Alpine, 23; Emery, 22; Heber, 23; Henefer, 23, 24; Huntsville, 23; Morgan, 4, 23, 24, 29, 30; Nephi, near, 23; Randolph, 23, 24; Snowville, 28; Theodore, 19, 23.

Hail.—Corinne, 16; Deseret, 17; Ft. Duchesne, 18, 27; Government Creek, 2, 3; Henefer, 3; Huntsville, 3; Ibapah, 6, 7, 11; Marion, 17; Marysvale, 14; Modena, 6; Morgan, 3, 25; Moroni, 3, 4, 7, 25; Mt. Nebo, 17; Nephi, 7, 17; Nephi, near, 17; Ogden, 17; Salt Lake City, 18; Scipio, 3, 16, 17; Sunny side, 7, 17; Theodore, 17; Tropic, 3, 4, 6.

High Winds.—Deseret, 2, 3, 10, 16, 17, 19-22, 25; Emery, 27; Enterprise, 2, 19-21; Ft. Duchesne, 23; Garrison, 2, 17, 19-21; Government Creek, 20; Grayson, 2, 3; Henefer, 2, 13, 20, 21; Hite, 1-4, 17; Ibapah, 6, 7; La Sal, 2, 3; Levan, 10, 19, 20; Marion, 2, 19; Marysvale, 2, 3, 19, 22, 26; Meadowville, 5, 11, 15-17, 20, 22; Modena, 2, 3, 6, 7, 9-11, 13, 14, 16, 17, 20, 21, 24-27; Mt. Nebo, 19, 20, 26; Nephi, 19; Nephi, near, 2, 10, 16, 19-21, 25; Park City, 19, 20; Parowan, 2, 20, 21; Ranch, 2; St. George, 2; Salt Lake City, 13; Scipio, 2, 19; Theodore, 2-4, 6; Tropic, 2, 7.

Thunderstorms.—Beaver, 14; Black Rock, 7, 17; Castle Rock, 6, 7, 12-16; 24; Corinne, 16; Farmington, 1, 2, 7, 13, 15-18; Ft. Duchesne, 15, 25; Government Creek, 6, 7, 13-17; Heber, 11, 12; Henefer, 3, 7; 13-17; Hite, 7, 14, 25; Huntsville, 3, 14-17; Ibapah, 6, 7, 11, 14, 24, 25; Levan, 6, 7, 14, 16, 17, 25; Logan, 7; Marion, 7, 12, 16, 17, 25; Marysvale, 6, 7, 14; Meadowville, 3, 8, 11, 12, 15, 16; Modena, 6, 7; Morgan, 3, 13, 14, 16, 17, 21, 25; Moroni, 6, 7, 15-17, 25; Nephi, 7, 16, 17; Nephi, near, 7, 17; Ogden, 3, 8, 11, 14, 16, 17; Promontory, 3, 8, 11, 16; Ranch, 14; Randolph, 7, 10, 11; St. George, 6; Saltair, 3, 13, 17; Salt Lake City, 3, 7, 13, 14, 16, 17, 25; Scipio, 7, 16, 17; Sunnyside, 17, 26; Theodore, 5, 6, 11, 12, 15-17; 21, 25, 26; Tooele, 3, 7, 16, 17; Tropic, 14, 25.

WATER STAGES.

The level of Great Salt Lake on June 1st was 3. feet above zero; on June 15th, 4.1 feet above, and on July 1st, 4.1 feet above.

OBSERVERS' REMARKS.

Alpine.—The frost of the 23d caused some damage.—T. B. Whitby.

Annabella.—Twenty-one days of the month were partly cloudy.—J. W. Fairbanks.

Beaver.—Only one day was cloudy, and there were about twice as many clear days as partly cloudy.—James Connell.

Black Rock.—Calm days were frequent during the month.—A. H. Cassell.

Castle Rock.—Thunderstorms were numerous near the middle of the month.—David Moore.

Corinne.—Cloudy weather, accompanied by much rain, prevailed during the fore part of the month, but warmer weather was prevalent during the latter part.—A. C. Murphy.

Deseret.—The rain and hail storm on the 17th was very destructive.—S. W. Western.

Emery.—The month to the 23d was very cold; thereafter it was warmer.—H. C. Wickman.

Farmington.—Thunderstorms were frequent, especially at the middle of the month.—Charles Boylin.

Government Creek.—The precipitation amounted to several times the normal amount.—Walter James.

Green River.—The precipitation during the month amounted to only a trace.—J. H. Fritz.

Heber.—The weather of the month was very changeable. On the 23d ice one-fourth inch thick formed.—John Crook.

Henefer.—The month was colder than usual. The precipitation was above the normal. Frost did some damage on the 23d.—William Brewer.

Hite.—June was a dry, windy month. Thundershowers took place on the 15th and 25th, but the precipitation was very light.—John Hite.

Huntsville.—The first and the third week were rather stormy, but the remainder of the month was pleasant.—Lars Peterson.

Ibapah, near.—A fog was observed on the 2d. Thunderstorms, accompanied by hail, occurred on the 6th, 7th and 11th, and a thunderstorm on the 14th.—J. S. Lawton.

Kelton.—Partly cloudy weather was general thruout the month.—F. W. Klock.

Levan.—The first and middle parts of the month were somewhat stormy, but the last 12 days were clear and moderately warm.—Wm. Brown.

Manti.—A light frost occurred on the night of the 19th.—J. M. Anderson.

Marion.—During the night of the 4th one inch of snow fell.—James Woolstenhulme.

Marysvale.—The mean temperature of the month was slightly below normal.—John W. Henry.

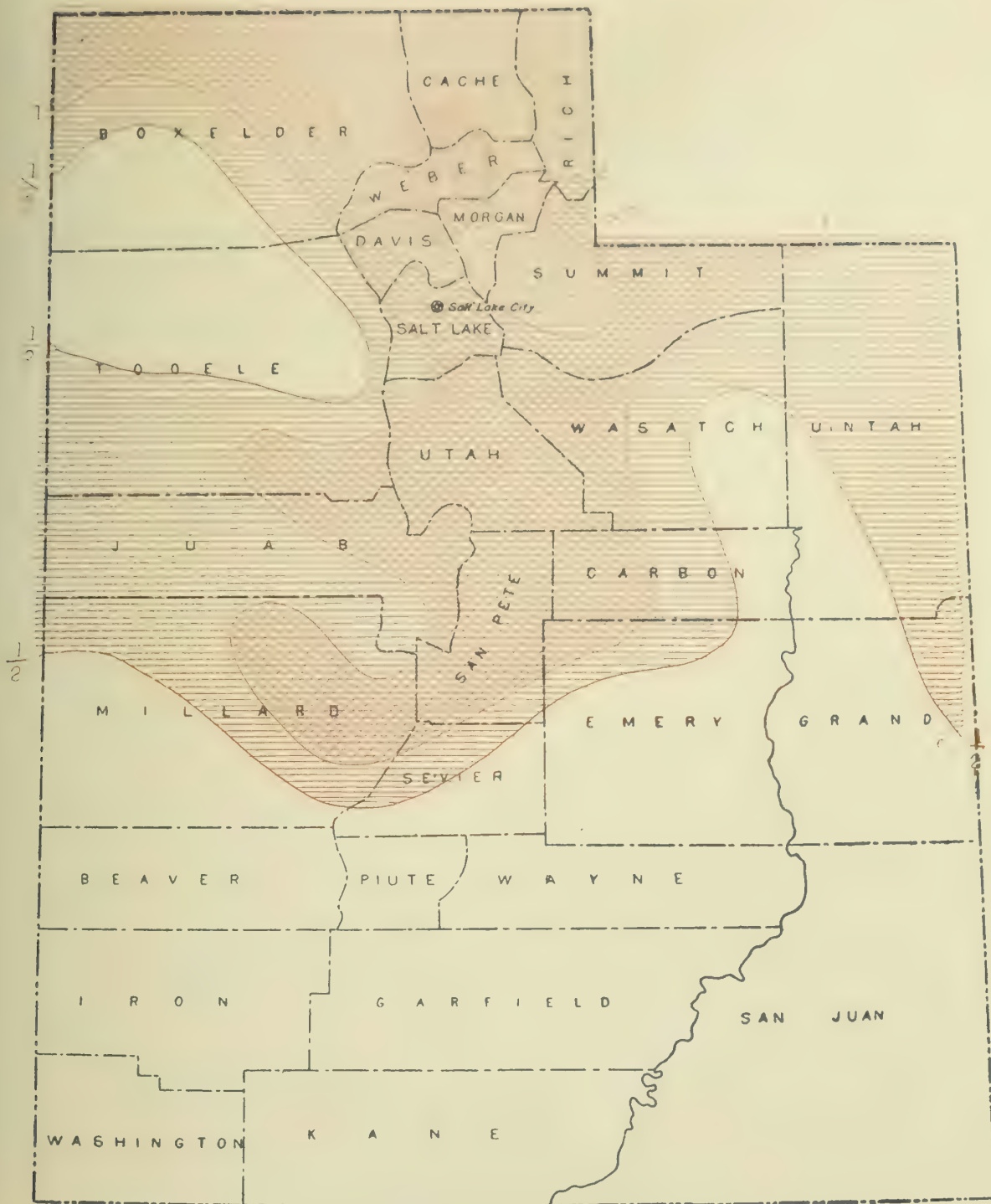
Meadowville.—High winds were a notable feature of the weather of the month.—J. S. Moffat.

COMPARATIVE STATE DATA FOR JUNE.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 65.0 | 116 | 22 | 0.46 |
| 1892 | 64.0 | 105 | 19 | 0.02 |
| 1893 | 61.5 | 106 | 15 | 0.84 |
| 1894 | 62.8 | 106 | 18 | 0.43 |
| 1895 | 70.0 | 112 | 21 | 0.20 |
| 1896 | 63.2 | 104 | 20 | 0.25 |
| 1897 | 65.2 | 110 | 22 | 0.78 |
| 1898 | 64.0 | 110 | 21 | 0.58 |
| 1899 | 69.7 | 111 | 30 | 0.16 |
| 1900 | 63.3 | 109 | 19 | 0.25 |
| 1901 | 66.9 | 114 | 21 | 0.17 |
| 1902 | 65.7 | 110 | 27 | 0.47 |
| 1903 | 63.3 | 102 | 21 | 0.47 |
| 1904 | 64.7 | 110 | 23 | 0.18 |
| 1905 | 62.2 | 106 | 22 | 0.59 |
| 1906 | 58.8 | 105 | 16 | 1.22 |
| 1907 | 59.6 | 104 | 20 | 1.09 |
| 1908 | | | | |

CLIMATOLOGICAL DATA, JUNE, 1908.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. | | | | | Precipitation, in inches. | | | | | Sky. | | | Prevailing direction of wind. | Observers. |
|-------------|------------|------------------|--------------------------|-------------------------------------|----------------------------|----------|---------|-------|----------------------------|-----------------------|--------|----------------------------|-----------------------|----------------------------|-------------------------|--------------------|-------------------------------|-----------------------|
| | | | | Mean. | Departure from the normal. | Highest. | Lowest. | Date. | Departure from the normal. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Days with snow or more. | Number clear days. |  |  | Number partly cloudy days. | Number cloudy days. |
| NORTHERN. | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 12 | | | | | | 1.47 | 0.92 | 0.37 | 7 | 13 | 9 | 8 | | T. B. Whitby. | |
| Alpine Rock | Summit | 4,240 | 38 | 61.4 | -9.7 | 94 | 25 | 40 | 1.86 | 0.58 | 0.0 | 12 | 13 | 9 | 8 | | David Moore. | |
| Alpine | Boxelder | 4,240 | 38 | 61.4 | -9.7 | 94 | 25 | 40 | 1.86 | 0.58 | 0.0 | 12 | 13 | 9 | 8 | | Agent So. Pacific R. R. | |
| Alpine | Davis | 4,267 | 8 | 50.6 | -6.4 | 90 | 25 | 30 | 4.73 | 2.25 | 0.77 | 8 | 11 | 15 | 4 | SW. | Charles Boylin. | |
| Alpine | Uinta | 5,000 | 20 | 59.1 | -6.5 | 90 | 15 | 30 | 4.47 | 3.18 | 0.82 | 9 | 10 | 5 | 9 | SW. | Post Surgeon. | |
| Alpine | Tooole | ... | ... | ... | ... | ... | ... | ... | 0.77 | 0.54 | 0.20 | 8 | 24 | 6 | 1 | NE. | A. J. Fraser. | |
| Alpine | Wasatch | 5,606 | 15 | 56.0 | -3.5 | 88 | 25 | 28 | 1.42 | 1.01 | 0.42 | 9 | 17 | 5 | 8 | S. | John Crook. | |
| Alpine | Summit | 5,301 | 9 | 54.4 | -5.0 | 86 | 24 | 28 | 2.20 | 1.05 | 0.72 | 14 | 15 | 8 | 7 | W. | William Brewer. | |
| Alpine | Weber | 5,100 | 13 | ... | ... | ... | ... | ... | 3.21 | 1.24 | 0.85 | 0.0 | 9 | 14 | 9 | 7 | W. | Lars Petersen. |
| Alpine | Boxelder | 4,230 | 30 | 50.4 | -10.5 | 88 | 25 | 30 | 1.90 | 1.06 | 0.60 | 9 | 7 | 17 | 6 | NW. | Agent So. Pacific R. R. | |
| Alpine | CACHE | 4,507 | 17 | 50.0 | -7.7 | 85 | 25 | 37 | 4.41 | 2.60 | 1.41 | 8 | ... | ... | ... | ... | Agricultural College. | |
| Alpine | Boxelder | ... | 3 | 58.5 | ... | 91 | 25 | 33 | 0.31 | 0.11 | 0.0 | 5 | ... | ... | ... | ... | C. J. Burke. | |
| Alpine | Summit | ... | 3 | ... | ... | ... | ... | ... | 2.26 | 0.90 | 1.0 | 14 | 10 | 8 | 12 | ... | J. Woolstenhulme. | |
| Alpine | Rich | 6,200 | 9 | 52.2 | -4.0 | 80 | 25 | 30 | 2.66 | 2.05 | 1.20 | 10 | 10 | 4 | 10 | W. | J. S. Moffat. | |
| Alpine | CACHE | 4,848 | 13 | ... | ... | ... | ... | ... | 2.43 | 1.85 | 0.54 | 14 | ... | ... | ... | ... | Fred Yates. | |
| Alpine | Morgan | 5,080 | 5 | 55.7 | ... | 88 | 25 | 29 | 1.81 | 0.51 | ... | 8 | 10 | 10 | 4 | SW. | T. R. G. Welch. | |
| Alpine | Weber | 4,310 | 7 | 60.6 | -7.6 | 90 | 25 | 39 | 3.28 | 2.87 | 0.98 | 0.0 | 8 | 18 | 6 | 5 | NW. | Enoch Farr. |
| Alpine | Weber | 4,310 | 38 | 64.6 | -7.3 | ... | ... | ... | 3.11 | 2.56 | 1.05 | 0.0 | 12 | 14 | 6 | 7 | W. | W. H. Chevers. |
| Alpine | Summit | 7,800 | 11 | 51.8 | -6.9 | 77 | 26 | 26 | 1.59 | 1.43 | 0.55 | 5 | 16 | 8 | 6 | ... | F. W. Jones. | |
| Alpine | Boxelder | ... | ... | ... | ... | ... | ... | ... | 1.74 | 0.60 | ... | 10 | ... | ... | ... | ... | E. C. Houghton. | |
| Alpine | Rich | ... | 3 | ... | ... | ... | ... | ... | 2.15 | 1.18 | ... | 9 | 10 | 2 | 12 | SW. | Wm. Rex. | |
| Alpine | Salt Lake | 4,366 | 34 | 60.7 | -7.5 | 84 | 25 | 39 | 1.89 | 0.88 | 0.0 | 9 | ... | ... | ... | ... | E. J. Bench. | |
| Alpine | Salt Lake | 4,366 | 34 | 60.8 | -7.5 | 80 | 25 | 40 | 1.79 | 1.02 | 0.56 | 0.0 | 12 | 15 | 8 | 7 | SE. | Section Center. |
| Alpine | Salt Lake | 4,366 | 18 | 55.7 | -5.9 | 88 | 24 | 30 | 1.84 | 1.30 | 0.40 | 12 | 7 | 7 | 10 | ... | N. J. Ferrell. | |
| Alpine | Wasatch | 5,507 | 2 | 57.4 | -8.4 | 85 | 24 | 30 | 0.65 | 0.33 | 0.0 | 7 | 8 | 13 | 9 | W. | Joseph Robbins. | |
| Alpine | Tooole | 4,900 | 12 | 58.4 | -8.4 | 90 | 25 | 34 | 1.20 | 0.72 | 0.47 | 9 | 12 | 5 | 18 | 10 | SW. | S. A. Chivers. |
| Alpine | Uinta | 6,500 | 13 | 51.5 | -4.1 | 84 | 25 | 25 | 2.02 | 1.54 | ... | 9 | 13 | 9 | 8 | W. | M. M. Smith. | |
| Alpine | Rich | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | I. J. Elkington. | |
| Alpine | Averages | ... | ... | 57.6 | -7.1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Joab Collier. |
| MIDDLE. | | | | | | | | | | | | | | | | | | |
| Alpine | Sevier | 4,872 | 2 | 59.5 | ... | 89 | 10 | 33 | 0.30 | 0.17 | 0.0 | 0 | 7 | 21 | 2 | SW. | J. W. Fairbanks. | |
| Alpine | Millard | 5,500 | 8 | ... | ... | 88 | 14 | 32 | 0.26 | 0.15 | 0.0 | 3 | 15 | 11 | 4 | SW. | E. H. Peterson. | |
| Alpine | Emery | 4,541 | 14 | 61.0 | -4.8 | 95 | 15 | 31 | 1.22 | 0.01 | 0.95 | 0.0 | 4 | 19 | 4 | 7 | W-S. | James Jeff. |
| Alpine | Uinta | 6,260 | 8 | 59.0 | +0.2 | 85 | 30 | 30 | ... | ... | ... | 0 | 1 | 6 | 23 | ... | S. W. Western. | |
| Alpine | Emery | 5,100 | 18 | 63.2 | -4.9 | 95 | 24 | 34 | 1.13 | 0.54 | 0.35 | 0.0 | 1 | 15 | 3 | 0 | ... | H. J. Cooper. |
| Alpine | Millard | 5,100 | 8 | 60.0 | -8.0 | 80 | 30 | 32 | 0.10 | 0.10 | 0.0 | 1 | 15 | 3 | 0 | ... | H. C. Wickman. | |
| Alpine | Tooole | 5,277 | 8 | 58.3 | -6.1 | 90 | 25 | 33 | 1.32 | 1.15 | 0.35 | 0.0 | 10 | 17 | 8 | 5 | ... | J. J. Starley. |
| Alpine | Emery | 4,080 | 11 | 70.8 | -3.0 | 100 | 24 | 42 | ... | ... | ... | 0 | 21 | 8 | 0 | ... | E. M. Smith. | |
| Alpine | Tooole | 7,500 | 2 | 51.0 | -5.2 | 82 | 25 | 22 | 0.58 | 0.42 | 0.0 | 7 | 12 | 7 | 5 | ... | Walter James. | |
| Alpine | Millard | ... | 1 | ... | ... | ... | ... | ... | 0.95 | 0.30 | 4.0 | 7 | 12 | 7 | 5 | W. | J. D. Hitch. | |
| Alpine | Juab | 5,010 | 18 | 59.1 | -5.2 | 87 | 24 | 32 | 0.58 | 0.42 | 0.0 | 5 | ... | ... | ... | ... | Mrs. J. S. Lawton. | |
| Alpine | Sanpete | 5,575 | 14 | ... | ... | 83 | 24 | 35 | 1.15 | 0.63 | 0.58 | 0.0 | 7 | 19 | 4 | 7 | SW. | Geo. Crane. |
| Alpine | Sanpete | ... | ... | ... | ... | ... | ... | ... | 2.12 | 1.99 | 1.07 | 0.0 | 2 | 10 | 2 | 5 | ... | William Brown. |
| Alpine | Sanpete | 4,650 | 7 | 62.0 | -5.0 | 94 | 25 | 36 | 1.55 | 0.67 | 0.0 | 11 | 7 | 23 | 0 | SW. | Louis C. Kjar. | |
| Alpine | Sanpete | 5,859 | 10 | ... | ... | ... | ... | ... | 0.74 | 0.49 | 0.23 | 0.0 | 7 | 10 | 8 | 6 | ... | B. F. Eliason. |
| Alpine | Juab | ... | 3 | ... | ... | ... | ... | ... | 1.23 | 0.50 | ... | 9 | 18 | 12 | 0 | ... | D. C. Walkey. | |
| Alpine | Juab | ... | 3 | ... | ... | ... | ... | ... | 0.64 | 0.21 | 0.0 | 10 | 10 | 16 | 4 | SW. | Miss Olive E. Peck. | |
| Alpine | Millard | ... | 3 | 63.6 | ... | 92 | 26 | 33 | 0.59 | 0.28 | 0.0 | 4 | 21 | 6 | 3 | SW. | A. Madsen. | |
| Alpine | Utah | 4,637 | 3 | ... | ... | ... | ... | ... | 1.01 | 0.07 | 0.0 | 9 | 12 | 9 | 9 | SW. | S. R. Boswell. | |
| Alpine | Utah | 4,532 | 10 | 60.4 | -4.2 | 91 | 24 | 34 | 1.66 | 0.62 | 0.20 | 0.0 | 9 | 18 | 3 | ... | J. Finlison. | |
| Alpine | Sevier | 5,350 | 18 | 59.0 | -5.1 | 94 | 23 | 43 | 1.40 | 1.10 | 1.40 | 0.0 | 1 | 19 | 0 | 7 | ... | D. L. Coombs. |
| Alpine | Millard | 5,260 | 13 | 57.4 | -7.0 | 88 | 30 | 29 | 0.68 | 0.38 | 0.10 | 0.0 | 7 | 13 | 10 | 7 | SW. | B. Y. University. |
| Alpine | Utah | 7,474 | 10 | ... | ... | ... | ... | ... | 1.42 | 0.60 | 0.0 | 5 | ... | ... | ... | ... | J. J. Jensen. | |
| Alpine | Carbon | 5,075 | 10 | 61.2 | -1.9 | 92 | 10 | 32 | 1.77 | 1.42 | 0.92 | 0.0 | 3 | 14 | 4 | 12 | ... | Thomas Memmott. |
| Alpine | Juab | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Agent Rio Grande R. R. | |
| Alpine | Utah | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Henry Cullum. | |
| Alpine | Utah | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Ag. Rio Grande W. R. R. | |
| Alpine | Carbon | 5,540 | 9 | 53.4 | -11.4 | 82 | 30 | 31 | 0.92 | 0.84 | ... | 0.2 | 5 | 14 | 10 | 6 | SW. | Mrs. W. A. Edwards. |
| Alpine | Averages | ... | ... | 60.2 | -4.5 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | W. A. Knight. |
| SOUTHERN. | | | | | | | | | | | | | | | | | | |
| Alpine | San Juan | 4,800 | 8 | ... | ... | ... | ... | ... | 0.10 | 0.05 | 0.0 | 3 | 19 | 10 | 1 | SW. | Melville Branch. | |
| Alpine | Beaver | ... | 3 | 56.2 | ... | 83 | 24 | 30 | 0.15 | 0.12 | 0.0 | 3 | 19 | 10 | 1 | ... | Miss S. Hubert. | |
| Alpine | Iron | ... | 4 | 62.6 | ... | 87 | 24 | 34 | 0.15 | 0.12 | 0.0 | 4 | 12 | 15 | 3 | SW. | James Connell. | |
| Alpine | Garfield | ... | 7 | 57.4 | -0.3 | 86 | 24 | 28 | 0.13 | 0.07 | 0.0 | 2 | 27 | 0 | 3 | ... | J. M. Foster. | |
| Alpine | Washington | ... | 2 | ... | ... | ... | ... | ... | 0.03 | 0.03 | 0.0 | 1 | 18 | 10 | 2 | ... | Mrs. E. Clayton. | |
| Alpine | Garfield | 5,700 | 8 | 58.4 | +8.4 | 85 | 25 | 31 | 0.08 | -0.33 | 0.08 | 0.0 | 1 | 21 | 0 | 9 | ... | John Day. |
| Alpine | Washington | ... | 4 | 71.0 | ... | 101 | 30 | 37 | 0.49 | 0.25 | 0.0 | 3 | ... | ... | ... | ... | Geo. H. Barney. | |
| Alpine | Beaver | 7,318 | 14 | 61.6 | -7.1 | 88 | 24 | 30 | 0.20 | 0.20 | 0.0 | 3 | ... | ... | ... | ... | Joseph T. Atkins. | |
| Alpine | San Juan | ... | 3 | 62.8 | ... | 90 | 20 | 28 | 0.14 | 0.10 | 0.0 | 1 | 21 | 3 | 6 | ... | E. R. Smyth. | |
| Alpine | Garfield | 3,000 | 9 | 74.6 | -4.3 | 100 | 24 | 41 | 0.14 | 0.10 | 0.0 | 3 | 21 | 8 | 1 | W. | Joseph A. Lyman. | |
| Alpine | Kane | 4,925 | 8 | ... | ... | ... | ... | ... | 0.30 | -0.13 | 0.14 | 0.0 | 4 | 15 | 10 | 2 | ... | J. P. Hite. |
| Alpine | San Juan | 7,000 | 16 | 58.1 | -4.0 | 84 | 24 | 27 | 0.00 | -0.18 | 0.00 | 0.0 | 0 | ... | ... | ... | E. M. Ford. | |
| Alpine | Wayne | 7,000 | 16 | 54.4 | -5.1 | 80 | 21 | 26 | 0.26 | 0.16 | 0.16 | 0.0 | 4 | 13 | 8 | 9 | ... | Mrs. G. W. Carpenter. |
| Alpine | Piute | 6,180 | 9 | 58.0 | -3.7 | 88 | 24 | 30 | 0.26 | 0.16 | 0.16 | 0.0 | 4 | 13 | 8 | 9 | ... | Michael Hansen. |
| Alpine | Beaver | ... | 1 | 63.6 | ... | 96 | 25 | 34 | 0.00 | 0.00 | 0.0 | 0 | 20 | 0 | 4 | ... | John W. Henry. | |
| Alpine | Beaver | 5,070 | 11 | ... | ... | ... | ... | ... | 0.00 | 0.00 | 0.0 | 0 | ... | ... | ... | ... | C. M. Temple. | |
| Alpine | Grand | 4,000 | 19 | ... | ... | ... | ... | ... | 0.37 | -0.07 | 0.34 | ... | 4 | 15 | 10 | 5 | SW. | Geo. Roberts, Sr. |
| Alpine | Iron | 5,479 | 8 | 59.9 | -3.4 | 87 | 25 | 32 | 0.37 | -0.07 | 0.34 | ... | 4 | 15 | 10 | 5 | SW. | Henry Crouse. |
| Alpine | Garfield | ... | 4 | ... | ... | ... | ... | ... | 0.16 | 0.09 | 0.09 | 0.0 | 2 | ... | ... | ... | Weather Bureau. | |
| Alpine | Iron | | | | | | | | | | | | | | | | | |



STATE OF UTAH - PRECIPITATION



Daily Precipitation, June, 1908.

| Stations. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|-----|----|----|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | .15 | .18 | .32 | .19 | | T. | | | .16 | | T. | | | | | .37 | .10 | | | | | | | | | | | | | | | | |
| Castle Rock | .06 | .04 | .26 | .18 | .09 | .03 | .08 | | | | | | .02 | .02 | | .58 | .30 | .20 | | | | | | | | | | | | | | | |
| Corinne | .77 | .08 | .12 | .53 | | | | | | | .10 | | | | | .35 | .66 | | | | | .12 | | | | | | | | | | | |
| Farmington | .40 | T. | .25 | .80 | T. | | T. | | | | | | | | | .82 | T. | .75 | .43 | | | .02 | | | | | | | | | | | |
| Ft. Duchesne | .06 | | | | | | | | | | | | .02 | | | .16 | .05 | .20 | .10 | | | | | | | | .13 | | .05 | | | | |
| Grantsville (near) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heber | .32 | .04 | .15 | .18 | T. | T. | T. | | | | | .03 | | .30 | | .30 | .05 | .05 | | | | T. | | | | | | | | | | | |
| Henefer | .11 | .04 | .13 | .37 | .05 | .14 | .07 | | | | | | | .05 | .72 | T. | .17 | .30 | | | | .05 | | | T. | | | | | | | | |
| Huntsville | .31 | T. | .30 | .85 | | | | | | | T. | T. | | .38 | .40 | .18 | .56 | .17 | | | | .06 | | | | | | | | | | | |
| Kelton | | | .15 | .08 | | | .15 | .40 | | | | .60 | | | .30 | .20 | | | | .02 | | | | | | | | | | | | | |
| Logan | | | * | * | .85 | | .21 | | | | | | | | | * | .41 | | | | | .13 | | | | | | | | | | | |
| Lucin | .03 | .02 | .12 | .08 | .17 | .03 | .22 | .02 | | | | .07 | T. | .04 | .90 | .19 | .18 | .09 | | | | .10 | | | T. | | | | | | | | |
| Marion | .15 | T. | .06 | | .13 | | | | .20 | | .08 | .15 | | | .12 | .20 | .47 | .17 | | | | .05 | | | | | | | | | | | |
| Meadowville | .13 | .06 | .07 | .37 | .06 | .07 | .18 | | | | .05 | .02 | | | .54 | .22 | .39 | .07 | | | | .20 | | | | | | | | | | | |
| Millville | .05 | T. | .04 | .47 | T. | T. | | | | | | | | | T. | .45 | .08 | .18 | .51 | | | .03 | | | | | | | | | | | |
| Morgan | .88 | T. | .26 | .98 | .13 | T. | | | | | | T. | | | .44 | | .19 | .27 | | | | .13 | | | | | | | | | | | |
| Ogden No. 1 | .44 | .09 | .28 | .05 | T. | | | T. | T. | | T. | .02 | | .11 | .52 | .09 | .32 | .08 | | .01 | T. | .10 | | | | | | | | | | | |
| Ogden No. 2 | | | .46 | .28 | | | | | | | | | | | .55 | .20 | .16 | | | | | | | | | | | | | | | | |
| Park City | .60 | | .50 | .40 | | | | .06 | | | | .02 | .01 | | | .03 | .05 | .05 | | | | .02 | | | | | | | | | | | |
| Promontory | .01 | | .03 | .15 | .08 | T. | .46 | | .05 | T. | | .01 | | | T. | .18 | | .18 | | | | | | | | | | | | | | | |
| Randolph | .07 | | .88 | .40 | .07 | | | | | | | | .06 | | .23 | .03 | .13 | | | | | .02 | | | | | | | | | | | |
| Saltair Beach | .01 | .08 | .05 | .50 | T. | T. | .10 | | | | | | .01 | .07 | .49 | .12 | .24 | .02 | | | | .10 | | | T. | | | | | | | | |
| Salt Lake City | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | .40 | .05 | .10 | .22 | | .10 | | .20 | | .05 | .10 | .17 | | .25 | | | | | | .10 | .10 | | | | | | | | | | | | |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | .03 | | | | | | .01 | .03 | | T. | | .06 | T. | | .04 | .15 | .33 | | | | | | | | T. | | | | | | | | |
| Tooele | .01 | .04 | .31 | .02 | .10 | .01 | .09 | T. | | | | | .01 | T. | .11 | .10 | .47 | | | | | .02 | | | | | | | | | | | |
| Vernal (near) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodruff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | | | .03 | | .02 | .03 | .17 | .01 | | | | | | | T. | | .13 | | | | | | | | | | | | | | | | |
| Black Rock | | | | | | T. | .15 | | | | | | | .03 | | T. | .08 | | | | | | | | | | | | | | | | |
| Castle Dale | | | | | | | T. | | | | | | | T. | | T. | .05 | | | T. | | | | | | .10 | | | | | | | |
| Deseret | | | .10 | | | | .07 | | | | | T. | | | .10 | | .95 | | | | | | | | | | | | | | | | |
| Dragon | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | |
| Emery | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | |
| Fillmore | | | .35 | T. | | .11 | .16 | | | | | | | .05 | | .26 | .20 | | | | | | | | | | | | | | | | |
| Garrison | | T. | T. | | | T. | T. | | | | | | | T. | T. | .10 | T. | .10 | | | T. | | | | | | | | | | | | |
| Government Creek | .03 | .15 | .35 | .06 | | .10 | .12 | | | | | | T. | T. | T. | .30 | .10 | .10 | | | | .01 | | | | | | | | | | | |
| Green River | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | |
| Hatch (near) | .04 | .30 | .08 | | .15 | .20 | | | | | .12 | T. | T. | T. | | .06 | | | | | | | | | | | | | | | | | |
| Kanosh | | | .05 | .02 | | .06 | | | | | | | | | .03 | | .42 | | | | | | | | | | | | | | | | |
| Levan | | | .21 | .04 | T. | T. | .04 | | | | | | | .20 | .04 | .58 | .04 | | | | | | | | | | | | | | | | |
| Manti | | | | | | | | | | | | | | | | .105 | .107 | | | | | | | | | | | | | | | | |
| Moroni | | .04 | .14 | .01 | | .22 | .01 | | | | | | | T. | .23 | .01 | .67 | .05 | | | | | | | | | | | | | | | |
| Mount Nebo | .03 | .01 | .20 | T. | | .11 | T. | | | | | T. | | T. | .14 | T. | .23 | .02 | | | T. | | | | | | | | | | | | |
| Mount Pleasant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi | .08 | | .21 | .03 | | .02 | .30 | | | | | | | | .04 | .01 | .50 | .04 | | | | | | | | | | | | | | | |
| Nephi (near) | | | .21 | | | .03 | .13 | | | | .01 | | | | .03 | .04 | .18 | .01 | | | | | | | | | | | | | | | |
| Oak City | | .02 | .19 | | | T. | | | | | | | | | | .28 | .10 | | | | | | | | | | | | | | | | |
| Payson | .04 | .15 | .18 | .13 | T. | .02 | .35 | | | | | T. | | T. | .02 | T. | .67 | .05 | | | | | | | T. | T. | | | | | | | |
| Provo | .10 | .10 | .20 | .02 | .01 | | | | | | | | | | .18 | .05 | .20 | .20 | | | | | | | | | | | | | | | |
| Richfield | | | T. | | | T. | .40 | | | | | | | | | T. | T. | .16 | | | | | | | | | | | | | | | |
| Scipio | T. | T. | .07 | .09 | .01 | .07 | .15 | | | | | | | | | .13 | | | | | | | | | | | | | | | | | |
| Soldier Summit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside | T. | | | | | | .60 | | | | | T. | | | .03 | .07 | .12 | | | | | | | | | | .60 | | | | | | |
| Thistle | .92 | | | | | | | | | | | | | | | | .75 | | | | | | .10 | | | | | | | | | | |
| Trout Creek | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah Lake Pumping Station | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wellington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | .03 | | T. | | T. | T. | .05 | | | | | | | .02 | | | T. | | | | | | | | | | | | | | | | |
| Cedar City | | | | | | | .12 | | | | | | | .05 | | | | | | | | | | | | | | | | | | | |
| Coyote | | | | | | | .07 | .06 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enterprise (near) | | | | | .03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Escalante | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frisco | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JULY, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

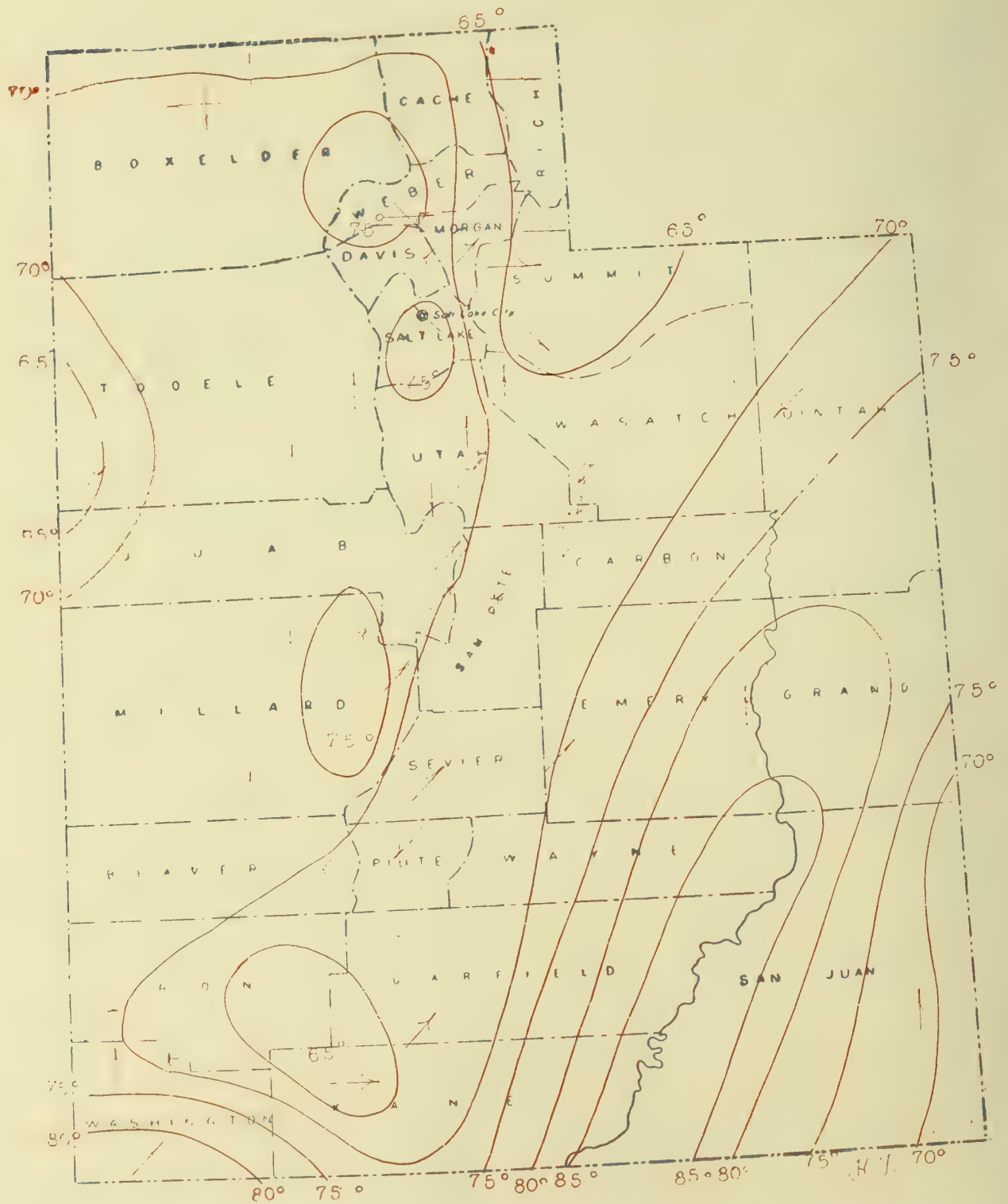
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

AUGUST 15, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, JULY, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, JULY, 1908. No. 7

GENERAL SUMMARY.

The mean temperature for the month was nearly normal. It was somewhat warmer than for July, 1907, and nearly the same as prevailed during this month in 1905 and 1906. The precipitation was much above the normal amount, and was the greatest average ever recorded for the State during July in the past 17 years, except that of 1896.

The temperature was generally deficient over the northern and middle sections, altho the departures were slight in nearly all instances. Over the southern section it averaged above the normal. No pronounced periods of hot or cold weather occurred, the extreme temperatures being recorded at irregular intervals during all portions of the month.

More than the average amount of precipitation fell thruout the State, except in the north and northeastern portions, where the amount was generally less than one-half inch. In the Salt Lake valley the rainfall was very light. This was in marked contrast to the previous two months, when the heaviest precipitation in the State fell in that district. The greatest excess in precipitation occurred over the southern section, in nearly all portions of which the rainfall was more than one inch. More than two inches fell over an area comprised of Iron county, and portions of Washington, Kane, Beaver, Piute, Millard and Sevier counties. Frequent thunderstorms occurred during the month, and damaging floods were reported from some localities during the latter portion.

The sunshine was plentiful except over the southern section, where it was below the seasonal average.

Light south and southwest winds prevailed during the month, no high velocities being reported from any section of the State.

The supply of water for irrigation purposes was adequate, the streams being higher at the close of the month than at the opening, due to the copious rains during the latter portion.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 53 stations, was 71.5°, which was 0.3° below the normal.

The highest local monthly mean was 86.1° at Hite, and the lowest was 61.0° at Park City.

The highest temperature recorded was 108° at Green River on the 5th and 7th, and the lowest, 30° at Park City on the 6th, giving a range for the section of 78°.

The greatest local monthly range was 68° at Thistle, and the least, 34° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 0.96 inch, which was 0.41 inch above the normal for the State.

The greatest monthly amount was 2.76 inches at Modena, and the least was a trace at Lucin and Ogden No. 1.

The greatest amount of precipitation in any 24 consecutive hours was 1.20 inches at Modena on the 26th.

There was an average of 5 days with 0.01 inch or more of precipitation; 4 over the northern, 5 over the middle, and 6 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4404; at Modena, 7191; at Grand Junction, Colo., 3771; and at Pocatello, Idaho, 5367.

The maximum velocity at Salt Lake City was 38 miles per hour from the west on the 25th; at Modena, 36 miles from the south on the 21st; at Grand Junction, Colo., 33 miles from the southeast on the 28th; and at Pocatello, Idaho, 30 miles from the southwest on the 4th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 14; partly cloudy days, 11; cloudy days, 6.

Determined from the records of automatic sunshine recorders, Salt Lake City had 78 per cent; Modena 78 per cent; Grand Junction, Colo., 83 per cent; and Pocatello, Idaho, 89 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 39 per cent, the lowest observed reading being 14 per cent on the 20th; at Modena, 41 per cent, the lowest observed reading being 9 per cent on the 3d and 20th; at Grand Junction, Colo., 35 per cent, the lowest observed reading being 6 per cent on the 4th and 5th; and at Pocatello, Idaho, 41 per cent, the lowest observed reading being 10 per cent on the 1st.

MISCELLANEOUS PHENOMENA.

Fog.—Marion, 27, 28.

Corona, lunar.—Ogden, 19.

Corona, solar.—Nephi, near, 8, 16.

Halo, lunar.—Marysville, 5; Tropic, 5.

Halo, solar.—Marion, 8; Marysville, 7.

Rainbow.—Nephi, near, 24, 25, 28, 31; Ogden, 13, 28.

Hail.—Government Creek, 27; Marion, 24; Marysville, 22; Morgan, 31; Park City, 10.

High Winds.—Castle Rock, 15; Corinne, 31; Deseret, 8, 12, 18, 21-23, 25; Garrison, 13; Marion, 8; Meadowville, 16, 23; Modena, 4, 7, 9, 12, 14, 15, 21-27, 29, 31; Nephi, near, 22; Ogden, 10-12; Richfield, 5, 10; St. George, 22, 23.

Thunderstorms.—Alpine, 27, 28; Beaver, 12, 13, 23-31; Black Rock, 9, 12, 22, 23, 25, 27-31; Castle Rock, 13, 15, 23, 25, 31; Corinne, 31; Experiment Farm, 23; Farmington, 15, 23, 26-28; Ft. Duchesne, 28; Government Creek, 12, 13, 22-25, 30, 31; Heber, 8, 15, 23, 29-31; Henefer, 9-11, 13, 15, 16, 22, 23, 25, 28, 31; Hite, 2, 7, 9, 26, 31; Huntsville, 13, 31; Ibapah, near, 2; La Sal, 7, 12, 15, 24, 26-29, 31; Levan, 13, 15, 23, 25, 28-31; Marion, 8-10, 13-15, 22, 23, 28-31; Marysville, 12, 13, 15, 22, 23, 26-31; Meadowville, 8, 10, 28, 31; Moab, 7, 8, 10, 13; 22, 27-31; Modena, 9, 10, 13, 21-31; Morgan, 8-11, 13, 14, 16, 20, 23, 27, 28, 31; Moroni, 6, 7, 13, 22, 23, 25, 30, 31; Mt. Nebo, 25, 26; Nephi, 12, 24, 25, 28; Nephi, near, 13, 15, 24, 25, 27, 28, 31; Ogden, 9, 15, 26, 30, 31; Park City, 15; Pinto, 23, 27, 28; Promontory, 28, 29, 31; Ranch, 9, 22, 24, 26; St. George, 28, 29; Saltair, 13, 15, 23, 25; Salt Lake City, 13-15, 23, 24, 28; Snowville, 23, 28, 31; Teasdale, 30; Theodore, 1, 3, 7-10, 15, 18, 20-23, 26, 27, 30, 31; Tooele, 8, 9, 13-16, 23; Tropic, 3, 13.

LATE REPORTS.

For May—Grantsville, total precipitation, 2.45 inches; number of rainy days, 14.

For June—Moab, mean temperature, 69.2°; maximum temperature, 97° on the 24th; minimum temperature, 40° on the 2d; greatest daily range, 55°; total precipitation, 0.20 inch; greatest precipitation in 24 hours, 0.20 inch on the 14th; number of rainy days, 1; clear days, 19; partly cloudy days, 10; cloudy days, 1. Grantsville, total precipitation, 1.60 inches; number of rainy days, 8.

COMPARATIVE STATE DATA FOR JULY.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 72.8 | 110 | 27 | 0.28 |
| 1892 | 70.8 | 110 | 24 | 0.79 |
| 1893 | 70.4 | 109 | 26 | 0.71 |
| 1894 | 70.0 | 110 | 33 | 0.57 |
| 1895 | 72.0 | 111 | 33 | 1.81 |
| 1896 | 68.7 | 110 | 23 | 0.55 |
| 1897 | 73.4 | 115 | 28 | 0.35 |
| 1898 | 73.3 | 107 | 30 | 0.66 |
| 1899 | 72.6 | 111 | 30 | 0.09 |
| 1900 | 75.5 | 115 | 27 | 0.41 |
| 1901 | 68.4 | 112 | 17 | 0.32 |
| 1902 | 71.0 | 110 | 27 | 0.52 |
| 1903 | 69.7 | 109 | 27 | 0.68 |
| 1904 | 71.5 | 112 | 26 | 0.52 |
| 1905 | 71.6 | 110 | 30 | 0.85 |
| 1906 | 70.1 | 108 | 29 | 0.58 |
| 1907 | 71.5 | 108 | 30 | 0.96 |

OBSERVERS' REMARKS.

Alpine—The heat has been oppressive during a great part of the month. T. B. Whitby.

Beaver—Thunderstorms took place daily from the 23d to the 31st, inclusive. Jas. Connell.

Cedar City—During the past month we have had some of the most damaging floods in the history of this locality. J. M. Foster.

Black Rock—A large proportion of the month consisted of cloudy days. A. H. Cassell.

Corinne—Changeable weather prevailed during the month. A high wind and a thunderstorm occurred on the 31st. A. C. Murphy.

Deseret—Calm, warm weather obtained thruout the month. S. W. Western.

Ft. Duchesne—The sunshine was excessive at this station. A thunderstorm occurred on the 28th. H. Curtis.

Hite—This was a very warm month; on 26 days the maximum temperature was 100° or more, and on only one day did it fall below 98°. Jno. Hite.

Huntsville—The month was very dry and warm, and there was very little wind. Lars Petersen.

Marysville—The temperature was slightly above normal, while the precipitation was greatly in excess. John W. Henry.

Moab—On the 10th very vivid lightning was observed at 4 p. m., when the sky was clear. Henry Crouse.

Morgan—No great damage was done by rains until the storm of the 31st, which occasioned considerable loss. W. Visick.

Mt. Nebo—Warm weather prevailed thruout the month. The precipitation was above normal. D. C. Walkey.

Ogden—By the 16th all visible snow had disappeared from the mountains east of the city. W. H. Chevers.

Park City—A heavy hailstorm occurred on the 10th. Hubert T. Jones.

Ranch—During the last third of the month thunderstorms obtained almost daily. J. W. Seaman.

Sunnyside—There were many occasions when rain seemed about to fall, but very little occurred where it could be of much benefit, as nearly all the precipitation was upon the mountain tops. On the 31st a torrent descended the canyon, beginning at 7 p. m. Henry Cullum.

Theodore—Streams were very low at first, but later on they were swollen by rains, and at the close of the month they still carried a large volume of water. M. M. Smith.

Tooele—On the 23d lightning struck in an open field and started a grass fire, which, however, did very little damage. E. A. Bonelli.

Tropic—The precipitation was very heavy toward the end of the month, causing great floods in the mountain streams. E. P. Bolton.

WATER STAGES.

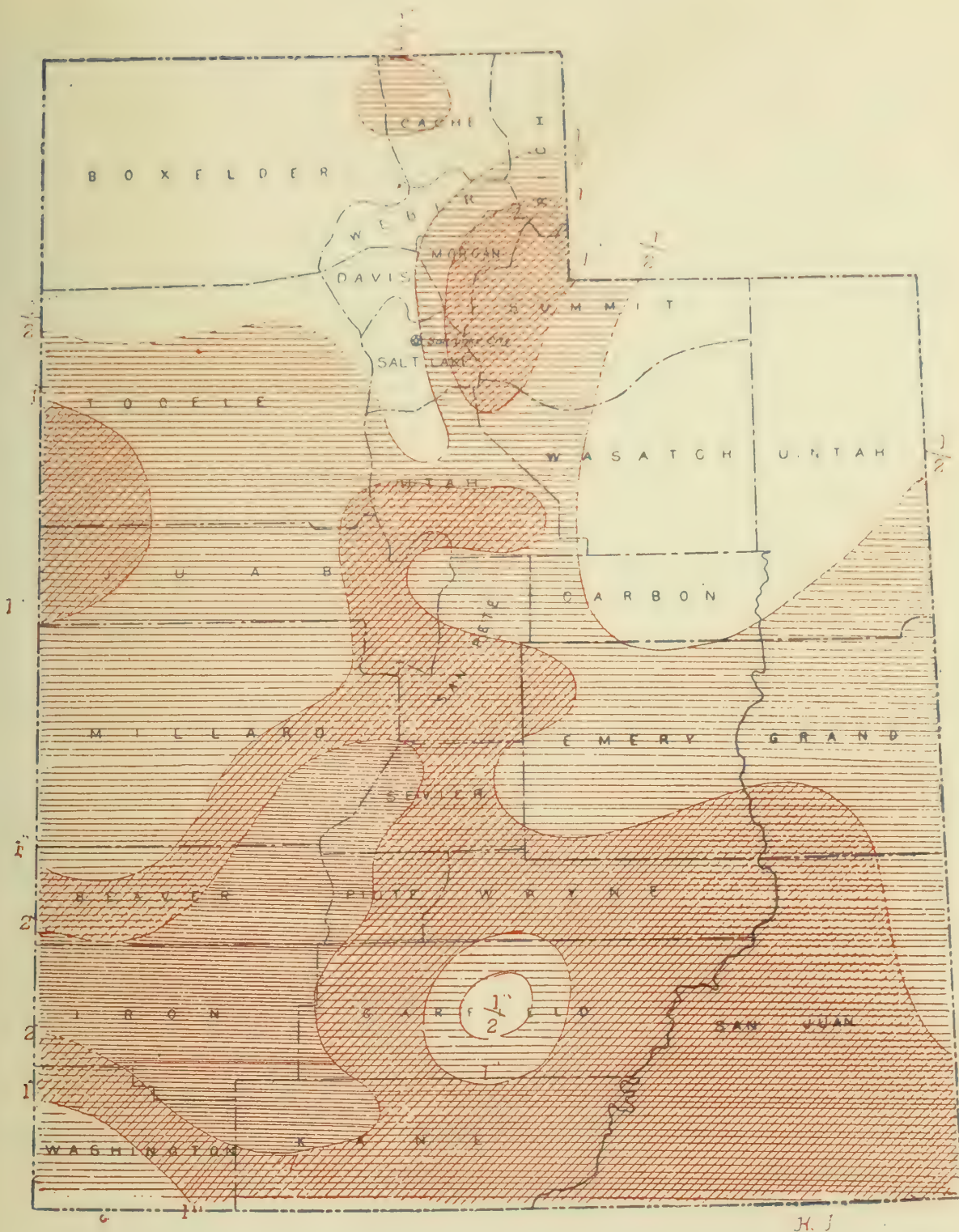
The level of Great Salt Lake on July 1st was 4.1 feet above zero; on July 15th, 4.0 feet above, and on August 1st, 3.8 feet above.

CLIMATOLOGICAL DATA, JULY, 1908.

| | | Temperature, in degrees Fahrenheit. | | | | | | | | | | Precipitation, in inches. | | | | | Sky. | | | | | Observers. | |
|-------------------|------------|-------------------------------------|--------------------------|-------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|----------------------------|-----------------------------|--------------------|----------------------------|---------------------|-------------------------------|-------------------------|--|------------|--|
| Stations. | Counties. | Elevation, feet. | Length of record, years. | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total, snowfall unmelting. | Days with 4 inches or more. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. | | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,000 | 12 | | | | | | | | 1.06 | +0.42 | 0.94 | 0.0 | 3 | 20 | 6 | 5 | W. | T. B. Whitby. | | | |
| Castle Rock | Summit | | 4 | | | | | | | | 1.45 | 0.80 | 0.0 | 8 | 20 | 6 | 5 | W. | David Moore. | | | | |
| Corinne | Boxelder | 4,240 | 38 | 77.9 | +1.3 | 104 | *11 | 80 | *18 | 51 | 0.44 | -0.10 | 0.34 | 0.0 | 1 | 16 | 14 | 1 | SW. | Agent So. Pacific R. R. | | | |
| Farmington | Davis | 4,267 | 8 | 72.4 | +0.1 | 95 | 12 | 48 | 5 | 42 | 0.09 | -0.39 | 0.05 | 0.0 | 2 | 22 | 8 | 1 | SW. | Charles Boylin. | | | |
| Fort Duchesne | Uinta | 5,000 | 20 | 70.5 | -0.6 | 90 | 7 | 41 | 20 | 52 | 0.13 | -0.37 | 0.05 | 0.0 | 3 | 25 | 6 | 0 | NE. | Post Surgeon. | | | |
| Granville (near) | Tooele | | 2 | | | | | | | | 0.75 | | | 0.0 | 4 | | | | | A. J. Fraser. | | | |
| Heber | Wasatch | 5,066 | 15 | 67.4 | -1.0 | 94 | 13 | 38 | 18 | 50 | 1.57 | -0.76 | 0.82 | 0.0 | 3 | 17 | 12 | 2 | SE. | John Crook. | | | |
| Honolulu | Summit | 5,301 | 9 | 66.2 | -1.9 | 91 | *12 | 37 | 6 | 50 | 1.68 | -1.43 | 0.53 | 0.0 | 7 | 16 | 13 | 2 | W. | William Brewer. | | | |
| Huntsville | Weber | 5,100 | 13 | | | | | | | | 0.31 | -0.07 | 0.17 | 0.0 | 3 | 20 | 10 | 1 | | Lars Petersen. | | | |
| Kelton | Boxelder | 4,230 | 30 | 73.3 | +4.3 | 97 | 12 | 45 | *1 | 43 | 0.05 | 0.32 | 0.05 | 0.0 | 1 | 18 | 13 | 0 | NE. | Agent So. Pacific R. R. | | | |
| Logan | Cache | 4,507 | 17 | 72.3 | +1.2 | 95 | 8 | 50 | 17 | 37 | 0.87 | 0.48 | 0.87 | 0.0 | 1 | | | | | Agent So. Pacific R. R. | | | |
| Lucin | Boxelder | | 3 | 73.9 | | 98 | 20 | 42 | 1 | 40 | T. | | T. | 0.0 | 0 | | | | | Agricultural College. | | | |
| Marion | Summit | | 3 | | | | | | | | 0.77 | | 0.20 | 0.0 | 0 | | | | | C. J. Burke. | | | |
| Meadowville | Rich | 6,200 | 9 | 64.4 | -0.01 | 87 | *8 | 39 | 17 | 43 | 0.20 | -0.35 | 0.10 | 0.0 | 2 | 20 | 3 | 2 | W. | J. Woolstenhulme. | | | |
| Millville | Cache | 4,848 | 13 | | | | | | | | 0.46 | +0.04 | 0.19 | 0.0 | 3 | | | | | J. S. Moffat. | | | |
| Morgan | Morgan | 5,080 | 5 | 67.7 | | 92 | *12 | 41 | 21 | 40 | 1.39 | -0.95 | 0.05 | 0.0 | 0 | 8 | 22 | 1 | SW. | Fred Yates. | | | |
| Ogden No. 1 | Weber | 4,370 | 7 | 75.4 | +1.8 | 93 | 12 | 53 | 17 | 34 | T. | -0.28 | T. | 0.0 | 0 | 25 | 3 | 2 | SW. | W. Visick. | | | |
| Ogden No. 2 | Weber | 4,370 | 38 | 79.6 | +0.4 | | | | | | 0.04 | -0.19 | 0.04 | 0.0 | 1 | 20 | 10 | 1 | W. | Hubert T. Jones. | | | |
| Park City | Summit | 7,800 | 11 | 61.0 | -4.2 | 83 | *4 | 30 | 6 | 44 | 1.80 | -1.34 | 0.63 | 0.0 | 5 | 16 | 7 | 8 | | W. H. Chevers. | | | |
| Promontory | Boxelder | | | | | | | | | | 0.05 | | 0.03 | 0.0 | 2 | | | | | Hubert T. Jones. | | | |
| Randolph | Rich | | 3 | | | | | | | | | | | 0.0 | | | | | | F. C. Houghton. | | | |
| Salt Lake Beach | Salt Lake | | 4 | 74.1 | | 90 | *13 | 56 | *2 | 27 | 0.15 | | 0.06 | 0.0 | 3 | | | | | Wm. Rex. | | | |
| Salt Lake City | Salt Lake | 4,366 | 34 | 75.6 | -0.6 | 94 | 12 | 58 | 17 | 32 | 0.25 | 0.20 | 0.22 | 0.0 | 4 | 17 | 13 | 1 | SE. | E. J. Bench. | | | |
| Silver Lake | Salt Lake | | 1 | | | | | | | | | | | | | | | | | Section Center. | | | |
| Snowville | Boxelder | 4,360 | 18 | 68.6 | -0.4 | 95 | *21 | 33 | 0 | 60 | 0.35 | -0.02 | 0.15 | 0.0 | 4 | 10 | 21 | 0 | S. | N. J. Ferchall. | | | |
| Strawberry Valley | Wasatch | | 2 | | | | | | | | | | | | | | | | | Joseph Robbins. | | | |
| Theodore | Wasatch | 5,507 | 2 | 68.5 | | 92 | 7 | 35 | 2 | 49 | 0.38 | | 0.12 | 0.0 | 7 | 7 | 16 | 8 | | S. A. Chivers. | | | |
| Tooele | Tooele | 4,900 | 12 | 72.2 | -1.4 | 91 | *21 | 53 | 24 | 36 | 0.65 | 0.23 | 0.26 | 0.0 | 10 | 7 | 11 | 13 | S. | M. M. Smith. | | | |
| Vernal (near) | Uinta | | 13 | | | | | | | | | | | | | | | | | E. A. Bonelli. | | | |
| Woodruff | Rich | 6,500 | 11 | | | | | | | | | | | | | | | | | Joab Collier. | | | |
| Averages | | | | 71.2 | -1.0 | | | | | | 0.59 | +0.15 | | 0.0 | 4 | 17 | 11 | 3 | W. | James Stuart. | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | Sevier | | 2 | 61.0 | | 98 | 21 | 44 | 2 | 46 | 1.27 | | 0.45 | 0.0 | 10 | 8 | 23 | 0 | SW. | J. W. Fairbanks. | | | |
| Black Rock | Millard | 4,872 | 8 | | | | | | | | 1.17 | +0.67 | 0.32 | 0.0 | 7 | 12 | 6 | 13 | S. | A. H. Cassell. | | | |
| Castle Dale | Emery | 5,500 | 9 | 72.6 | +4.4 | 97 | *4 | 48 | *18 | 47 | 1.30 | +0.78 | 0.60 | 0.0 | 4 | 16 | 14 | 1 | | James Jeffs. | | | |
| Deseret | Millard | 4,541 | 14 | 74.3 | +2.6 | 101 | *24 | 45 | *19 | 51 | | +0.62 | 0.45 | 0.0 | 3 | 19 | 6 | 6 | S. | S. W. Western. | | | |
| Dragon | Uinta | | | | | | | | | | | | | | | | | | | H. J. Cooper. | | | |
| Emery | Emery | 6,260 | 8 | 69.8 | +6.3 | 89 | *22 | 42 | 24 | 45 | 0.77 | -0.63 | 0.47 | 0.0 | 2 | 1 | 8 | 22 | SW. | H. C. Wickman. | | | |
| Fillmore | Millard | 5,100 | 18 | 75.9 | -0.9 | 105 | 21 | 47 | 19 | 52 | 1.46 | +0.94 | 0.58 | 0.0 | 7 | | | | | J. Starley. | | | |
| Garrison | Millard | | 5 | | | 93 | *3 | | | | 0.65 | | 0.45 | 0.0 | 3 | 16 | 5 | 8 | S. | E. M. Smith. | | | |
| Government Creek | Tooele | 5,277 | 8 | 72.8 | -0.3 | 96 | *12 | 46 | 6 | 40 | 0.62 | -0.35 | 0.37 | 0.0 | 5 | 19 | 11 | 1 | S. | Walter James. | | | |
| Green River | Emery | 4,080 | 11 | 81.0 | +3.8 | 108 | *5 | 54 | 6 | 52 | 0.70 | +0.53 | 0.40 | 0.0 | 3 | 26 | 5 | 0 | S. | J. H. Fritz. | | | |
| Ibapah (near) | Tooele | 7,500 | 2 | 64.4 | | 88 | 22 | 41 | 2 | 41 | 1.14 | +0.73 | 0.73 | 0.0 | 5 | 16 | 11 | 0 | SW. | Mrs. J. S. Lawton. | | | |
| Kanosh | Millard | | 1 | | | | | | | | 2.47 | | 0.71 | 0.0 | 8 | | | | | Geo. Crane. | | | |
| Levan | Juab | 5,010 | 18 | 71.0 | -0.6 | 92 | *10 | 49 | 19 | 41 | 1.06 | +0.45 | 0.62 | 0.0 | 7 | 17 | 9 | 5 | SW. | William Brown. | | | |
| Manti | Sunpete | 5,575 | 14 | 69.4 | -1.5 | 84 | 21 | 43 | 1 | 35 | 1.06 | +0.56 | 0.41 | 0.0 | 6 | 13 | 7 | 11 | SW. | J. M. Anderson. | | | |
| Moroni | Sunpete | | | | | | | | | | 0.66 | +0.28 | 0.28 | 0.0 | 6 | 7 | 24 | 0 | SW. | B. F. Eliason. | | | |
| Mt. Nebo | Utah | 4,650 | 7 | 73.8 | +0.7 | 98 | 3 | 46 | 1 | 45 | 1.17 | +0.91 | 0.75 | 0.0 | 4 | 17 | 12 | 2 | W. | D. C. Walkey. | | | |
| Mt. Pleasant | Sunpete | 5,859 | 16 | | | | | | | | | | | | | | | | | Miss Olive E. Peck. | | | |
| Nephi | Sunpete | | 3 | | | | | | | | 0.61 | | 0.20 | 0.0 | 0 | 17 | 13 | 1 | SW. | A. Madsen. | | | |
| Nephi (near) | Juab | | 3 | | | | | | | | 0.55 | | 0.22 | 0.0 | 7 | 18 | 21 | 2 | SW. | S. R. Boswell. | | | |
| Oak City | Millard | | 2 | | | | | | | | 0.50 | | 0.31 | 0.0 | 2 | 29 | 7 | 4 | SW. | J. Finlinson. | | | |
| Panguitch | Utah | 4,637 | 3 | 76.3 | | 99 | 12 | 50 | 17 | 43 | 0.56 | | 0.30 | 0.0 | 4 | 10 | 15 | 6 | SW. | D. L. Coombs. | | | |
| Provo | Utah | 4,534 | 16 | 72.7 | -0.1 | 96 | *3 | 46 | 18 | 46 | 0.32 | +0.09 | 0.22 | 0.0 | 2 | 9 | 20 | 2 | S. | James A. Oliver. | | | |
| Richfield | Sevier | 5,350 | 18 | 66.6 | -4.2 | 98 | *4 | 31 | 1 | 61 | 2.40 | +1.06 | 0.60 | 0.0 | 6 | 18 | 0 | 13 | SW. | J. J. Jensen. | | | |
| Scipio | Millard | 5,260 | 13 | 69.0 | -1.3 | 94 | 12 | 38 | 19 | 53 | 0.98 | +0.36 | 0.35 | 0.0 | 7 | 12 | 5 | 14 | SW. | Thomas Memmott. | | | |
| Soldier Summit | Utah | 7,474 | 16 | | | | | | | | | | | | | | | | | Agent Rio Grande R. R. | | | |
| Sunnyside | Carbon | | 3 | | | | | | | | 0.16 | | 0.05 | 0.0 | 7 | | | | | Henry Cullum. | | | |
| Thistle | Utah | | 3 | | | | | | | | 0.16 | | 0.70 | 0.0 | 4 | 21 | 8 | 2 | | Ag. Rio Grande W. R. R. | | | |
| Trout Creek | Juab | 5,075 | 10 | 68.1 | -2.0 | 103 | 23 | 35 | *6 | 64 | 1.71 | -1.18 | 0.0 | | | | | | | Frank Parker. | | | |
| Utah L. & P. Sta. | Utah | | 3 | | | | | | | | | | | | | | | | | W. A. Knight. | | | |
| Wellington | Carbon | 5,540 | 9 | 65.3 | -3.9 | 86 | 20 | 45 | *3 | 37 | | | | | | | | | | Melville Branch. | | | |
| Averages | | | | 71.4 | -0.3 | | | | | | 1.00 | 0.63 | | 0.0 | 5 | 15 | 11 | 5 | SW. | | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth | San Juan | 4,800 | 8 | | | | | | | | | | | | | | | | | Miss S. Hubert. | | | |
| Beaver | Beaver | | 3 | 67.6 | | 92 | 21 | 41 | 1 | 46 | 2.07 | | 0.39 | 0.0 | 10 | 12 | 15 | 4 | SW. | James Connell. | | | |
| Bedar City | Iron | | 4 | | | | | | | | 2.45 | | | 0.0 | 6 | 15 | 0 | 16 | | J. M. Foster. | | | |
| Joyoto | Garfield | | 7 | 66.7 | -4.6 | 90 | *7 | 42 | *2 | 44 | 1.20 | -0.76 | 0.39 | 0.0 | 3 | 11 | 8 | 12 | S. | Mrs. E. Clayton. | | | |
| Enterprise (near) | Washington | | 2 | | | | | | | | 0.70 | | 0.52 | 0.0 | 3 | 11 | 8 | 12 | S. | John Day. | | | |
| Escalante | Garfield | 5,790 | 8 | 70.1 | | 92 | 21 | 46 | 5 | 43 | 0.20 | | 0.15 | 0.0 | 3 | 12 | 0 | 19 | | Geo. H. Barney. | | | |
| Experiment Farm | Washington | | 4 | 81.8 | +0.7 | 107 | 21 | 52 | 5 | 47 | 0.42 | -0.37 | 0.17 | 0.0 | 4 | | | | | Joseph T. Atkins. | | | |
| Frisco | Beaver | 7,318 | 14 | 74.8 | +0.7 | 98 | 21 | 54 | *2 | 37 | 0.40 | 0.80 | 0.80 | 0.0 | 2 | 10 | 19 | 2 | S. | E. R. Smyth. | | | |
| Grayson | San Juan | | 3 | 73.3 | +1.6 | 95 | *4 | 61 | 3 | 42 | 1.06 | +0.84 | 0.89 | 0.0 | 3 | 15 | 16 | 0 | | Joseph A. Lyman. | | | |
| Hite | Garfield | 3,000 | 9 | 86.1 | | 105 | *4 | | | | | | | | | | | | | J. P. Hite. | | | |
| Kanab | Kane | 4,925 | 8 | | | | | | | | | | | | | | | | | E. M. Ford. | | | |
| Kanab | San Juan | 7,000 | 8 | | | | | | | | | | | | | | | | | | | | |

†At these stations

TOTAL PRECIPITATION, JULY, 1908



SCALE OF SHADES—IN INCHES.



Daily Precipitation, July, 1908.

| Stations. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. | | | |
|---------------------------|---------------|----|----|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|------|------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | | | | | | | | | | | | | | | | | | | | | | | .02 | | .04 | | | .94 | | | | | 1.00 | | |
| Castle Rock | | | | | | | | | | .03 | .02 | | .02 | | .05 | | | | | | | | .10 | | .06 | | | .37 | | | | .80 | 1.45 | | |
| Corinne | | | | | | | | | | | | | T. | | | | | T. | | | | | | | | | | | | | | .34 | 0.34 | | |
| Farmington | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | 0.09 | | |
| Ft. Duchesne | | | T. | | | | | | | | | | | | | | | T. | | | | | T. | * | * | T. | | .04 | .05 | T. | | .04 | 0.13 | | |
| Grantsville (near) | | | | | | .25 | | | | | | | | | | | | | | | | | | | .50 | | | | | | | | 0.75 | | |
| Heber | | | | | | | | T. | | | | | | | T. | | | | | | | | | | | | | | | .60 | | .82 | 1.57 | | |
| Henefer | | | | | | | | T. | T. | T. | .01 | | .53 | .05 | | .20 | | | | | | | .15 | | T. | | | | .34 | .20 | | .35 | 1.68 | | |
| Huntsville | | | | | | | | | | T. | | | .11 | | | | | | | | | | | | | | | | .17 | .20 | | .03 | 0.31 | | |
| Kelton | | | T. | | | | | | | | | | T. | .05 | | | | | | | | | | | | | | | | | | .87 | 0.87 | | |
| Logan | | | | | | | | | .05 | T. | T. | | T. | T. | | .07 | | | | | | | T. | T. | | | | T. | | | | | T. | | |
| Lucin | | | | | | | | | | T. | | | | | | | | | | | | | | | | | .20 | T. | .01 | .19 | .02 | .12 | 0.77 | | |
| Marion | | | | | | | | | | | | | | | | | | | | | | | | .03 | .08 | | .10 | | | | | T. | 0.20 | | |
| Meadowville | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .11 | 0.46 | |
| Millville | | | | | | | | | | .16 | | | T. | | | | | | | | | | | .19 | | | | | | | | | .95 | T. | |
| Morgan | | | | | | | | | | .05 | | | | .22 | .02 | | .05 | | | | | | | | | | | | | | | | T. | 1.30 | |
| Ogden No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | |
| Ogden No. 2 | | | | | | | | | | | | | T. | | T. | | | | | | | | | | | T. | T. | | .94 | | | | 0.04 | | |
| Park City | | | | | | | | | .08 | | .19 | | | | | | | | | | | | | | .30 | | | | .60 | | | .63 | 1.80 | | |
| Promontory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | | | .03 | 0.05 | |
| Randolph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saltair Beach | | | | | | | | | | | | | .04 | | .06 | .05 | | | | | | | | | T. | | T. | | | | | | 0.15 | | |
| Salt Lake City | | | | | T. | | | | | | | T. | .01 | .01 | | | | | | | | T. | T. | .01 | | T. | | T. | .22 | | | | 0.25 | | |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | | | | | | | | | | | .08 | | | | | | | | | | | | | | T. | | | .10 | | .02 | | | .15 | 0.35 | |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | .02 | | T. | | | | | T. | T. | T. | T. | | T. | | T. | | | | | .02 | | T. | | .07 | | T. | .01 | .06 | .12 | | T. | .08 | 0.38 | | |
| Tooele | | | | | | | | | | | | | | .05 | .01 | .04 | | | | | | | .04 | .26 | .03 | .01 | T. | .02 | .10 | .09 | | | 0.65 | | |
| Vernal (near) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodruff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | | | | | | | | | | | | | .05 | .19 | | | | | | | | | .16 | .06 | T. | .45 | .04 | .02 | T. | .03 | .11 | .16 | 1.27 | | |
| Black Rock | | | | | | | | | | | | | .15 | | | | | | | | | | .14 | .31 | | .32 | .10 | T. | T. | .05 | .10 | 1.17 | | | |
| Castle Dale | | | | | | | T. | | | T. | | | | | .05 | | | | | | | | | T. | .15 | T. | | .50 | .60 | | | T. | 1.30 | | |
| Deseret | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dragon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emery | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | |
| Fillmore | | | | | | | | | | .40 | | | T. | | | | | | | | | | | | T. | | .47 | T. | .58 | | .30 | | 0.77 | | |
| Garrison | | | | | | | | | .05 | | | .03 | | | | | | | | | | | .10 | | T. | .09 | * | .20 | .45 | .19 | T. | T. | 0.65 | | |
| Government Creek | | | | | | | T. | | | | | | | | | | | | | | | | | | T. | T. | | .37 | .10 | | | | 0.63 | | |
| Green River | | | | | | | | | | | | | T. | | | | | | | | | | | T. | .07 | T. | | .10 | .40 | .10 | | | 0.70 | | |
| Ibapah (near) | | T. | | T. | T. | | | | | | | | T. | | | | | | | | | | | T. | .10 | T. | T. | .08 | T. | .73 | .15 | | 0.70 | | |
| Kanosh | | | | | | | | | | | | | .09 | .19 | | | | | | | | | | .42 | .05 | | .24 | .04 | .29 | .49 | | .71 | 1.14 | | |
| Levan | | | | | | | | | | | | | .05 | .05 | | | T. | | | | | | | | .15 | T. | .05 | .07 | .04 | .08 | | .62 | 1.06 | | |
| Manti | | | | | | | | | | | | | .10 | | T. | | | | | | | | | T. | .14 | .05 | T. | .10 | .05 | T. | .31 | 1.06 | | | |
| Moroni | | | | | | | T. | T. | T. | | | | T. | .16 | | | | | | | | | | .03 | .09 | T. | .05 | T. | .75 | .10 | T. | .11 | 0.66 | | |
| Mount Nebo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount Pleasant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi | | | | | | | | | | | | | .02 | | .02 | | | | | | | | | .12 | | .05 | .06 | .20 | .05 | | .06 | .03 | 0.61 | | |
| Nephi (near) | | | | | | | | | | | | | .01 | | .05 | | | | | | | | | | .15 | .05 | .02 | .05 | .05 | | .22 | | 0.55 | | |
| Oak City | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Payson | | | | | | | | T. | | | | | | .04 | T. | | T. | | | | | | | | T. | T. | | .02 | T. | .31 | .14 | T. | 0.50 | | |
| Provo | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | .22 | | | | 0.32 | | |
| Richfield | | | | | | | | | | | | | | .20 | | .10 | | | | | | | | | | | | | | | | | 2.40 | | |
| Scipio | | | | | | | | | | | | | .10 | | .03 | | | | | | | | | .50 | .10 | | | .35 | .02 | .50 | .20 | .26 | 0.98 | | |
| Soldier Summit | | | | | | | | | | | | | | * | .03 | .62 | | | | | | | | * | .05 | | T. | T. | | .02 | | | 1.17 | | |
| Sunnyside | T. | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thistle | | | | | | | | | | | | | | .70 | .01 | | | | | | | | | | | | | | .50 | .50 | | | | | |
| Trout Creek | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah Lake Pumping Station | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wellington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | | | | | | | | | | | | | T. | .12 | .11 | | | | | | | | | T. | T. | .30 | .33 | .39 | .02 | .10 | .38 | .12 | .20 | 2.07 | |
| Cedar City | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coyote | | | | | | | | | | | | | .20 | | | | | | | | | | | | | .30 | .20 | | .10 | | | .30 | | 1.20 | |
| Enterprise (near) | | | | | | | | .03 | | | | | | | | | | | | | | | | .15 | | | | | .52 | | | | | 0.70 | |
| Escalante | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | .15 | | | | | | | 0.20 | |
| Experiment Farm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frisco | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grayson | | | T. | | | | | | | | | T. | T. | | | | T. | | | | | | | .10 | | | | T. | | .04 | | .17 | | 0.42 | |
| Hite | | | | | | | | | .02 | | | | T. | T. | | | | | | | | | | | | | | | | | | .15 | 0.80 | | |
| Kanab | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. | | | | .15 | .89 | 1.66 | |
| La Sal | | | | | | | T. | T. | T. | | | | | | | | | | | | | | | | | | | | | | | | | 0.62 | |
| Loa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.15 | |
| Marysville (near) | | T. | | | | | | T. | T. | T. | | | .02 | .17 | .01 | .02 | | | | | | | | .19 | T. | .15 | .05 | .04 | .67 | .02 | .19 | .65 | .03 | 2.21 | |
| Midford | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

† Precipitation incomplete.

821.05
UT 8
U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR AUGUST, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

VERNE H. CHURCH,

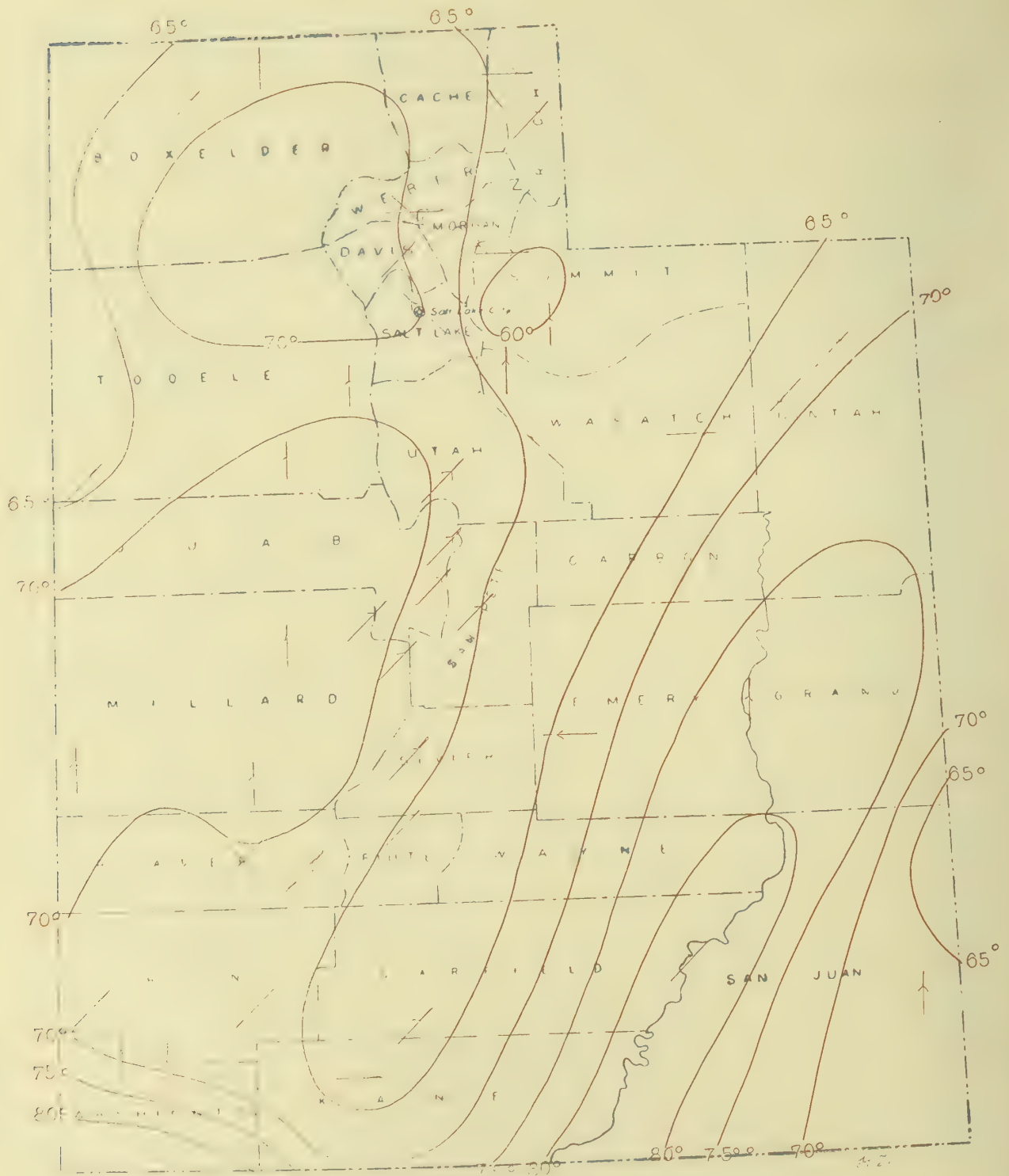
ACTING SECTION DIRECTOR.



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

SEPTEMBER 10, 1908

MEAN TEMPERATURES AND PREVAILING WINDS, AUGUST, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

VERNE H. CHURCH,

ACTING SECTION DIRECTOR.

VOL. X. SALT LAKE CITY, UTAH, AUGUST, 1908. No. 8

GENERAL SUMMARY.

The mean temperature was below the normal for the State, while the precipitation was somewhat in excess of the seasonal average. With two exceptions, 1899 and 1907, it was the coldest August in the past 17 years. The precipitation for this month in 1901, 1906 and 1907 was greater than that of the current month, but it was less during all other years since 1892.

The temperature was below normal over nearly all portions of the State, the deficiency being least over the southern section, where, at a few stations, there was a slight excess. The first half of the month was unusually warm, but the latter half was generally cool and pleasant, and considerably below the normal mean temperature. The maximum temperatures for the month and the year occurred at most stations during the first week of this month. The minimum temperatures were generally recorded during the last three days of the month, when low temperatures prevailed thruout the State, and light killing frosts occurred in many localities.

The precipitation was moderately heavy and quite uniformly distributed thruout the mountain districts. The rainfall was heaviest over the southeast section, and least over the northern. Showers and thunderstorms were frequent during the first and second decades of the month, the remaining portion being generally clear and cool. Slight local damage was caused by floods at a few points in different sections of the State.

The amount of sunshine was nearly normal over all districts. Southwest winds prevailed during the month. High velocities occurred on a few dates, but no damage from that cause was reported.

The supply of water for irrigation purposes was ample thruout the month in nearly all localities.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 58 stations, was 68.1°, which was 2.3° below the normal.

The highest local monthly mean was 81.6° at St. George, and the lowest was 58.9° at Park City.

The highest temperature recorded was 109° at Green River on the 4th, and the lowest, 22° at Richfield on the 31st, giving a range for the section of 87°.

The greatest local monthly range was 76° at Thistle, and the least, 43° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 1.20 inches, which was 0.39 inch above the normal for the State.

The greatest monthly amount was 3.45 inches at Pinto, and the least was a trace at Lucin and Castle Dale.

The greatest amount of precipitation in any 24 consecutive hours was 1.40 inches at Pinto on the 2d.

There was an average of 6 days with 0.01 inch or more of precipitation; 6 over the northern, 5 over the middle, and 7 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4509; at Modena, 8105; at Grand Junction, Colo., 4111; and at Pocatello, Idaho, 5863.

The maximum velocity at Salt Lake City was 39 miles per hour from the northwest on the 14th; at Modena, 48 miles from the southwest on the 29th; at Grand Junction, Colo., 33 miles from the northwest on the 11th; and at Pocatello, Idaho, 31 miles from the southeast on the 13th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 16; partly cloudy days, 9; cloudy days, 6.

Determined from the records of automatic sunshine recorders, Salt Lake City had 77 per cent; Modena 82 per cent; Grand Junction, Colo., 77 per cent; and Pocatello, Idaho, 79 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 44 per cent, the lowest observed reading being 13 per cent on the 25th; at Modena, 60 per cent, the lowest observed reading being 24 per cent on the 7th; at Grand Junction, Colo., 44 per cent, the lowest observed reading being 9 per cent on the 28th; and at Pocatello, Idaho, 44 per cent, the lowest observed reading being 9 per cent on the 8th.

MISCELLANEOUS PHENOMENA.

Haze.—Marion, 4, 5.

Halo, Solar.—Hite, 16.

Aurora.—Salt Lake City, 8.

Rainbow.—Meadowville, 10, 13, 22.

Halos, Lunar.—Ogden, 5; Tropic, 3, 5, 8.

Frost, heavy.—Emery, 30; Richfield, 31.

Frost, killing—Annabella, 31; Deseret, 31; Henefer, 31; Huntsville, 31; Manti, 31; Marion, 26, 31; Marysvale, 31;

Meadowville, 26, 31; Morgan, 29, 31; Scipio, 31; Theodore, 31; Tooele, 31; Utah Lake, 29.

Frost, light.—Ft. Duchesne, 31; Government Creek, 30; Henefer, 26-28; Huntsville, 26, 27; Levan, 31; Mt. Nebo, 31; Nephi, 31; Nephi near, 31; Ogden, 31; Panguitch, 29, 30; Randolph, 22, 31; Salt Lake City, 31; Snowville, 26, 31; Theodore, 29; Thistle, 30; Vernal, 31.

Hail.—Hite, 13; Ibapah, 21; Kelton, 18; Marion, 6; Marysvale, 11, 12; Meadowville, 21; Modena, 11, 20; Maroni, 5, 11; Nephi near, 10, 11; Ogden, 6; Panguitch, 10; Randolph, 21, 30; Salt Lake City, 9; Scipio, 5, 12; Sunnyside, 21; Theodore, 11; Tooele, 10; Tropic, 11, 20-22; Vernal, 11.

High, Winds.—Deseret, 5, 9, 11, 13, 14, 20, 24, 25, 29; Enterprise, 12, 13, 24-30; Ft. Duchesne, 29; Garrison, 1, 2, 13, 24, 25, 29; Government Creek, 9, 10, 13, 24, 29; Heber, 29; Henefer, 9, 13, 14, 24, 25, 29; Hite, 14; Levan, 29; Marysvale, 14; Meadowville, 18, 23, 25, 28; Modena, 1, 2, 4-6, 9-14, 17, 19-25, 28-30; Mt. Nebo, 13, 14, 24, 25, 29, 30; Nephi near, 13, 14, 24, 25, 29; Ogden, 9, 10; Park City, 22-24; Richfield, 10, 13, 14, 29; St. George, 20; Salt Lake City, 6, 9, 13, 14, 22, 23, 30; Scipio, 13, 14, 25; Sunnyside, 22, 25, 29; Theodore, 30; Vernal, 9.

Thunderstorms.—Annabella, 20, 21; Beaver, 1, 2, 9-13, 16, 17; Black Rock, 10, 11; Corinne, 5, 13; Farmington, 4, 6, 13, 14; Ft. Duchesne, 14, 20, 22; Government Creek, 11, 17, 18, 20-22; Heber, 1, 2, 5; Henefer, 5, 6, 10, 13, 18, 19, 21, 22; Hite, 6, 9, 11, 18; Huntsville, 4, 10, 13, 14, 19, 21; Ibapah near, 3, 6, 17, 18, 21; Kelton, 6, 18; La Sal, 1; Levan, 2, 3, 5, 10-13, 20, 21; Marion, 1, 2, 5, 6, 10, 12; Marysvale, 1, 8-13, 17, 21, 22; Meadowville, 10, 11, 13, 14, 19, 21, 22; Moab, 13, 14, 21, 22; Modena, 1-4, 9-11, 17-22; Morgan, 6, 10, 11, 14, 19, 21, 22; Moroni, 2, 5, 10, 11, 13; Nephi, 5, 9, 10; Nephi near, 5, 10, 11; Ogden, 4, 6, 11-13; 19, 20; Park City, 21; Pinto, 4, 5; Provo, 19-22; Ranch, 1, 2, 9, 13, 17, 18; St. George, 8, 9; Saltair, 6, 9, 10, 12; Salt Lake City, 4-6, 9-12; 14, 18, 22; Scipio, 5, 6, 9-12, 16; Scofield, 1, 5, 6, 11, 12; Snowville, 5; Sunnyside, 1, 5, 10, 12, 13, 18-21; Teasdale, 1; Theodore, 2, 5, 6, 10, 11, 18-22, 27; Tooele, 1-6, 10, 11, 20-23; Tropic, 3, 4, 6, 9, 10, 12, 21; Utah Lake, 4, 5, 9-12, 18, 19, 24; Vernal, 2, 10, 20.

OBSERVERS' REMARKS.

Cedar City.—Unusually stormy weather prevailed during the past month.—J. M. Foster.

Deseret.—A killing frost occurred on the morning of the 31st.—S. W. Western.

Emery.—The month was very stormy up to the 23d. From this date to the end of the month there was much wind but no rain. A heavy frost occurred during the night of the 30th.—H. C. Wickman.

Government Creek.—Clear weather predominated. A light frost occurred on the 30th. High winds were frequent.—Walter James.

Henefer.—The precipitation and temperature were below the normal. A killing frost occurred on the 31st.—Wm. Brewer.

Heber.—August was a very pleasant month. There was abundant sunshine, only two days being cloudy. The precipitation was abnormally heavy.—John Crook.

Levan.—Thunderstorms were very frequent during the first two-thirds of the month.—Wm. Brown.

Marion.—On the 5th, 0.80 of an inch of rain fell in twenty minutes. One-fourth of an inch of ice formed on the 31st.—James Woolstenhulme.

Meadowville.—This has been a very cold and stormy month. A killing frost occurred on the 31st.—J. S. Moffat.

Moroni.—The rain of the 10th was distributed throughout twenty-four hours of time.—B. F. Eliason.

Mt. Nebo.—Pleasant weather continued throughout the entire month, with a light frost on the 31st.—D. C. Walkey.

Pinto.—The latter part of the month was clear and pleasant.—John H. Hanson.

Richfield.—The first few days of the month were unusually stormy. More rain fell than had fallen for years in the month of August. Some damage was done by the frost of the 31st.—Joseph J. Jensen.

Sunnyside.—Thunderstorms were very frequent during the month. No damage was caused by them, however. Heavy rains occurred but no floods resulted.—H. Cullen.

Tooele.—On the 10th, lightning struck a growing tree in town, tearing the bark from one side of the trunk, but did no further damage.—E. A. Bonelli.

LATE REPORTS.

For July:—Randolph, total precipitation 1.57 inches; greatest precipitation in 24 hours, 0.75 inch on the 24th; number of rainy days, 6; clear days, 21; partly cloudy days, 10; cloudy days, 10. Prevailing wind direction, southwest.

WATER STAGES.

The level of Great Salt Lake on August 1st was 3.8 feet above zero; on August 15th, 3.6 feet above, and on September 1st, 3.2 feet above.

COMPARATIVE STATE DATA FOR AUGUST.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 70.6 | 113 | 23 | 0.27 |
| 1892 | 68.1 | 112 | 25 | 0.23 |
| 1893 | 69.5 | 107 | 25 | 0.81 |
| 1894 | 70.6 | 110 | 29 | 0.35 |
| 1895 | 69.7 | 107 | 33 | 1.04 |
| 1896 | 69.4 | 111 | 35 | 0.40 |
| 1897 | 73.5 | 110 | 35 | 0.60 |
| 1898 | 65.7 | 102 | 24 | 0.96 |
| 1899 | 68.5 | 109 | 26 | 0.34 |
| 1901 | 72.3 | 111 | 31 | 1.03 |
| 1902 | 69.4 | 110 | 23 | 0.51 |
| 1903 | 71.8 | 110 | 27 | 0.38 |
| 1904 | 69.4 | 104 | 22 | 1.06 |
| 1905 | 71.4 | 110 | 26 | 0.74 |
| 1906 | 68.9 | 105 | 29 | 2.09 |
| 1907 | 67.7 | 121 | 26 | 1.56 |
| 1908 | 68.1 | 109 | 22 | 1.20 |

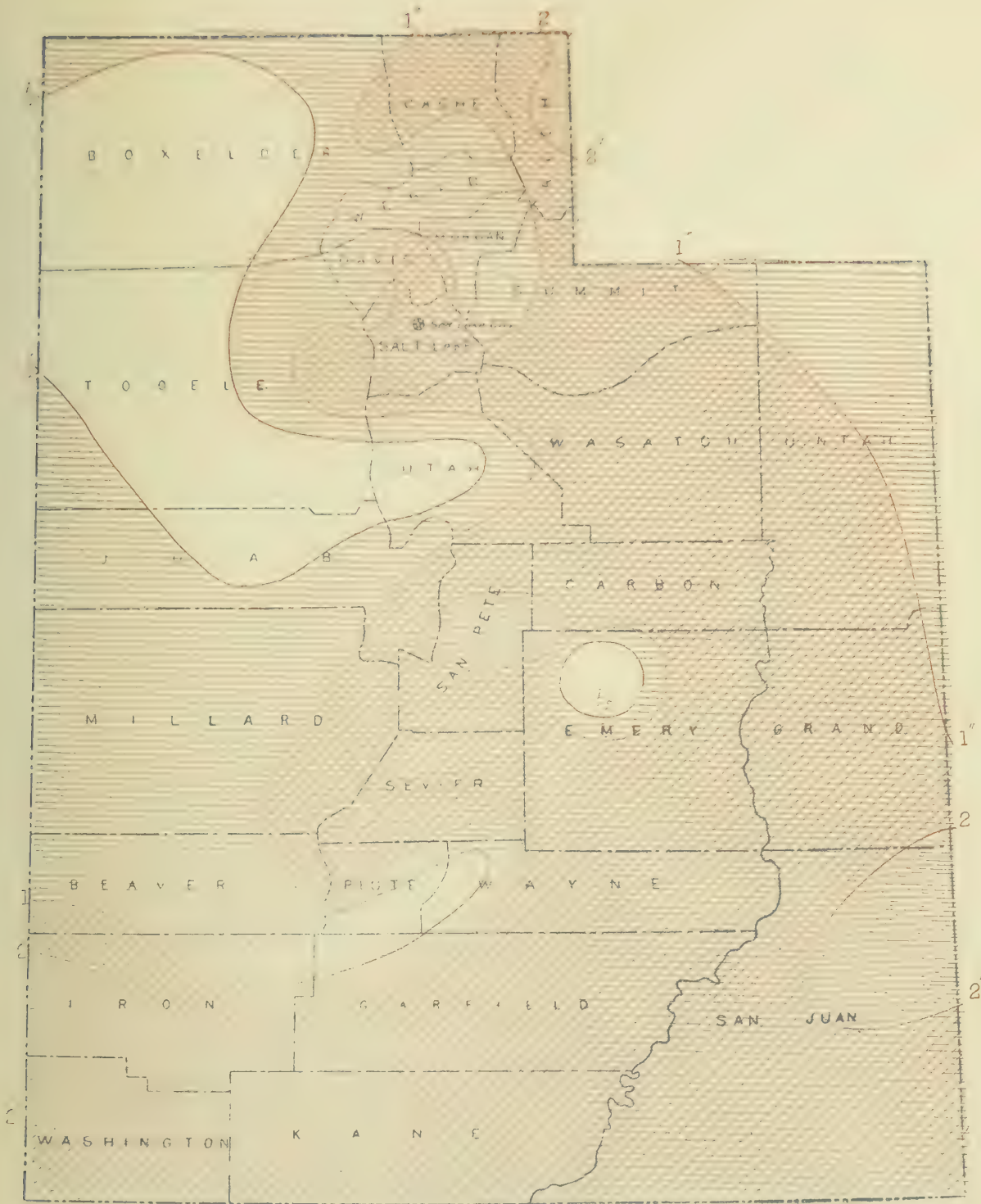
CLIMATOLOGICAL DATA, AUGUST, 1908.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | | Sky. | | | | | Observers. |
|--------------------|------------|------------------|--------------------------|-------------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|-------------------------------------|--------------------|----------------------------|---------------------|----------|--------------------------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Days with at least an inch or more. | Number clear days. | Number partly cloudy days. | Number cloudy days. | | |
| | | | | | | | | | | | | | | | | | | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 12 | | | | | | | | | | | | | | | | | T. B. Whitby. |
| Castle Rock | Summit | | 4 | | | | | | | | | | | | | | | | | David Moore. |
| Corinne | Boxelder | 4,240 | 38 | 72.3 | - 2.2 | 103 | *2 | 35 | 31 | 49 | 1.21 | +0.77 | 0.79 | 0.0 | 3 | 13 | 8 | 10 | | Agent So. Pacific R. R. |
| Farmington | Davis | 4,267 | 8 | 68.2 | - 3.5 | 92 | *1 | 38 | 11 | 41 | 1.14 | -0.68 | 0.68 | 0.0 | 4 | 21 | 9 | 1 | SW. | Charles Roylin. |
| ft. Duchesne | Uinta | 5,000 | 20 | 67.6 | - 2.1 | 97 | 9 | 31 | 31 | 51 | 1.14 | +0.50 | 0.41 | 0.0 | 11 | 21 | 6 | 10 | NE. | Post Surgeon. |
| Granville (near) | Tooele | | 2 | | | | | | | | | | | | | | | | | A. J. Fraser. |
| Heber | Wasatch | 5,606 | 15 | 63.6 | - 1.3 | 92 | 4 | 24 | 31 | 48 | 1.46 | -0.68 | 0.58 | 0.0 | 8 | 20 | 9 | 2 | S. | John Crook. |
| Honeter | Summit | 5,301 | 9 | 63.4 | - 0.9 | 94 | 8 | 23 | 31 | 54 | 0.55 | -0.32 | 0.18 | 0.0 | 8 | 19 | 10 | 2 | S. | William Brewer. |
| Huntsville | Weber | 5,100 | 13 | | | | | | | | 0.84 | -0.23 | 0.31 | 0.0 | 7 | 22 | 7 | 2 | W. | Lars Petersen. |
| Kelton | Boxelder | 4,230 | 30 | 68.4 | - 6.1 | 98 | 1 | 35 | 26 | 42 | 0.07 | -0.14 | 0.05 | 0.0 | 4 | 12 | 17 | 2 | SW. | Agent So. Pacific R. R. |
| Logan | CACHE | 4,507 | 17 | 67.6 | - 3.3 | 93 | 8 | 38 | 30 | 34 | 1.07 | +0.55 | 0.47 | 0.0 | 5 | | | | | Agricultural College. |
| Luen | Boxelder | | 3 | 69.2 | | 99 | 8 | 34 | 31 | 44 | T. | | | | | | | | | C. J. Burke. |
| Marion | Summit | | 3 | | | | | | | | | | | | | | | | | J. Woolstenhulme. |
| Meadowville | Rich | 6,200 | 9 | 60.6 | - 4.3 | 92 | 9 | 26 | 31 | 44 | 1.88 | -0.85 | 0.85 | 0.0 | 8 | 10 | 10 | 11 | S. | Fred Yates. |
| Millville | CACHE | 4,848 | 13 | | | | | | | | 0.81 | +0.14 | 0.25 | 0.0 | 7 | 19 | 6 | 6 | W. | J. S. Moffat. |
| Morgan | Morgan | 5,080 | 5 | 64.8 | | 94 | *8 | 28 | 31 | 53 | 0.43 | -0.13 | 0.13 | 0.0 | 5 | 13 | 16 | 2 | NW. | W. Visick. |
| ogden No. 1 | Weber | 4,310 | 7 | 69.4 | - 3.6 | 92 | *1 | 42 | *26 | 32 | 0.55 | -0.05 | 0.31 | 0.0 | 4 | 20 | 4 | 7 | NW. | Enoch Farr. |
| ogden No. 2 | Weber | 4,310 | 38 | 74.1 | - 2.7 | | | | | | 0.69 | +0.22 | 0.18 | 0.0 | 5 | 19 | 9 | 4 | W. | W. H. Chevers. |
| Park City | Summit | 7,800 | 11 | 58.9 | - 4.1 | 86 | 8 | 27 | 31 | 41 | 0.69 | -0.09 | 0.52 | 0.0 | 4 | 23 | 6 | 2 | | Hubert T. Jones. |
| Promontory | Boxelder | | 3 | | | | | | | | 0.09 | 0.05 | 0.0 | 3 | | | | | | F. C. Houghton. |
| Randolph | Rich | | 3 | | | | | | | | 2.16 | 1.16 | 0.0 | 0 | 18 | 3 | 10 | SW. | Wm. Rex. | |
| Saltair Beach | Salt Lake | | 4 | 71.2 | | 88 | *2 | 45 | *30 | 28 | 0.78 | | 0.21 | 0.0 | 8 | | | | | E. J. Bench. |
| Salt Lake City | Salt Lake | 4,366 | 34 | 71.0 | - 4.5 | 95 | 8 | 44 | 31 | 32 | 1.39 | +0.61 | 0.50 | 0.0 | 9 | 17 | 10 | 4 | SE. | Section Center. |
| Silver Lake | Salt Lake | | 1 | | | | | | | | | | | | | | | | | N. J. Ferheraff. |
| Snowville | Boxelder | 4,360 | 18 | 64.2 | - 3.6 | 100 | 4 | 28 | 31 | 54 | 0.69 | +0.46 | 0.22 | 0.0 | 5 | 10 | 21 | 0 | S. | Joseph Robbins. |
| Strawberry Valley | Wasatch | | 2 | | | | | | | | | | | | | | | | | S. A. Chivens. |
| Theodore | Tooele | 5,597 | 2 | 65.0 | | 94 | *3 | 26 | 31 | 53 | 1.19 | | 0.38 | 0.0 | 9 | 11 | 13 | 7 | W. | M. M. Smith. |
| Tooele | Tooele | 4,900 | 12 | 68.2 | - 5.4 | 92 | 8 | 37 | 31 | 34 | 2.05 | +1.47 | 0.83 | 0.0 | 11 | 7 | 5 | 19 | S. | E. A. Bonnell. |
| ernal (near) | Uinta | | 13 | 68.6 | - 1.5 | 92 | *4 | 38 | 31 | 37 | 0.84 | +0.30 | 0.29 | 0.0 | 12 | 21 | 5 | 5 | SW. | Joab Collier. |
| Woodruff | Rich | 6,500 | 11 | | | | | | | | | | | | | | | | | James Stuart. |
| Averages | | | | 67.2 | - 3.2 | | | | | | 0.98 | +0.44 | | 0.0 | 6 | 17 | 9 | 5 | SW. | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | Sevier | | 2 | 65.7 | | 94 | 8 | 31 | 31 | 51 | 0.82 | | 0.33 | 0.0 | 7 | 8 | 23 | 0 | | J. W. Fairbanks. |
| Black Rock | Millard | 4,872 | 8 | | | | | | | | 0.80 | -0.05 | 0.41 | 0.0 | 5 | 16 | 11 | 4 | S. | A. H. Cassell. |
| Castle Dale | Emery | 5,500 | 9 | 69.2 | - 1.6 | 93 | *3 | 32 | 30 | 46 | T. | -0.72 | T. | 0.0 | 0 | 19 | 0 | 12 | | James Jeffs. |
| Ceseret | Millard | 4,541 | 14 | 70.0 | - 1.3 | 99 | *4 | 26 | 31 | 54 | 0.57 | +0.08 | 0.35 | 0.0 | 4 | 19 | 6 | 6 | S. | S. W. Western. |
| Dragon | Uinta | | 8 | | | | | | | | | | | | | | | | | H. J. Cooper. |
| Emery | Emery | 6,260 | 8 | 65.2 | - 3.6 | 89 | 3 | 40 | *22 | 42 | 2.00 | +1.25 | 0.90 | 0.0 | 3 | 9 | 3 | 19 | C. | H. C. Wickman. |
| illmore | Millard | 5,100 | 18 | 73.0 | - 1.7 | 102 | 4 | 34 | 31 | 49 | 1.38 | +0.62 | 0.37 | 0.0 | 8 | | | | | J. J. Starkey. |
| arrison | Millard | | 5 | 72.4 | | 91 | 1 | 32 | 31 | 40 | 0.56 | | 0.45 | 0.0 | 2 | 14 | 6 | 6 | | E. M. Smith. |
| overnment Creek | Tooele | 5,277 | 8 | 69.9 | - 2.9 | 95 | 8 | 42 | *15 | 42 | 0.46 | -0.78 | 0.15 | 0.0 | 7 | 18 | 9 | 4 | S. | Walter James. |
| reen River | Emery | 4,080 | 11 | 78.0 | + 0.8 | 109 | 4 | 43 | 31 | 46 | 1.50 | +0.86 | 1.30 | 0.0 | 2 | 24 | 0 | 1 | S. | J. H. Fritz. |
| apah (near) | Tooele | 7,500 | 2 | 63.0 | | 84 | 8 | 30 | 30 | 42 | 0.97 | | 0.25 | 0.0 | 6 | 15 | 10 | 3 | SW. | Mrs. J. S. Lawton. |
| ash | Millard | | 1 | | | | | | | | 1.86 | | 0.66 | 0.0 | 7 | | | | | Geo. Crane. |
| evan | Juab | 5,010 | 18 | 66.8 | - 3.5 | 93 | 4 | 33 | 31 | 40 | 1.55 | +0.79 | 0.71 | 0.0 | 5 | 14 | 14 | 3 | SW. | William Brown. |
| lanti | Sanpete | 5,575 | 14 | 61.2 | - 9.0 | 79 | *7 | 27 | 31 | 38 | 1.39 | +0.95 | 0.73 | 0.0 | 4 | 21 | 4 | 6 | | J. M. Anderson. |
| loroni | Sanpete | | | | | | | | | | 2.60 | | 0.54 | 0.0 | 9 | 7 | 24 | 0 | SW. | B. F. Eliason. |
| lt. Nebo | Utah | 4,650 | 7 | 71.0 | - 3.1 | 98 | 9 | 34 | 31 | 41 | 0.44 | +0.19 | 0.12 | 0.0 | 6 | 22 | 9 | 0 | SW. | D. C. Walkey. |
| lt. Pleasant | Sanpete | 5,859 | 10 | | | | | | | | | | | | | | | | | Miss Olive E. Peck. |
| eph | Juab | | 3 | | | | | | | | 1.31 | | 0.64 | 0.0 | 6 | 21 | 9 | 1 | SW. | A. Madsen. |
| ak City | Millard | | 3 | 72.8 | | 99 | 4 | 35 | 31 | 54 | 0.87 | | 0.41 | 0.0 | 4 | 15 | 7 | 8 | SW. | J. Finlison. |
| ayson | Utah | 4,637 | 3 | | | | | | | | 0.69 | | 0.47 | 0.0 | 5 | 8 | 18 | 5 | SW. | D. L. Coombs. |
| rovo | Utah | 4,532 | 16 | 68.4 | - 2.3 | 97 | 9 | 32 | 31 | 47 | 0.15 | -0.14 | 0.12 | 0.0 | 3 | | | | | James A. Oliver. |
| ichfield | Sevier | 5,350 | 18 | 65.6 | - 1.8 | 97 | 16 | 22 | 31 | 55 | 1.75 | -1.13 | 0.40 | 0.0 | 6 | 17 | 0 | 14 | SW. | J. J. Jensen. |
| ipio | Millard | 5,260 | 13 | 66.4 | - 2.8 | 93 | 4 | 26 | 31 | 54 | 1.48 | +0.63 | 0.36 | 0.0 | 9 | 12 | 5 | 14 | SW. | Thomas Memmott. |
| ohfeld | Carbon | | | | | 84 | 4 | | | | 1.65 | | 0.52 | 0.0 | 10 | 19 | 5 | 7 | | O. E. Jorgensen. |
| ldier Summit | Utah | 7,474 | 16 | | | | | | | | 1.30 | | 0.50 | 0.0 | 8 | | | | | Agent Rio Grande R. R. |
| nnyside | Carbon | | 3 | | | | | | | | 0.08 | | 0.08 | 0.0 | 1 | 29 | 1 | 1 | | Henry Cullum. |
| histic | Juab | 5,075 | 16 | 68.6 | - 0.8 | 101 | *8 | 25 | 30 | 65 | 0.08 | -0.86 | | | | | | | | Agt. Rio Grande W. R. R. |
| out Creek | Utah | | 3 | | | | | | | | 1.38 | | 0.29 | 0.0 | 8 | 10 | 6 | 15 | | Frank Parker. |
| ah L. k. Pmp. Sta. | Utah | | 3 | | | | | | | | | | | | | | | | | W. A. Knight. |
| ellington | Carbon | 5,540 | 9 | 61.8 | - 7.1 | 86 | 24 | 34 | 31 | 43 | | | | | | | | | | Melville Branch. |
| Averages | | | | 68.1 | - 2.5 | | | | | | 1.10 | 0.45 | | 0.0 | 5 | 16 | 9 | 6 | SW. | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | |
| meth | San Juan | 4,800 | 8 | | | | | | | | | | | | | | | | | Miss S. Hubert. |
| aver | Beaver | | 3 | 65.8 | | 91 | 4 | 32 | 31 | 45 | 1.53 | | 0.35 | 0.0 | 10 | 13 | 17 | 1 | SW. | James Connell. |
| adar City | Iron | | 4 | 67.4 | | 85 | 19 | 40 | 31 | 38 | 1.23 | | 0.38 | 0.0 | 7 | 8 | 9 | 0 | NE. | J. M. Foster. |
| yoto | Garfield | | 7 | 62.8 | - 1.6 | 87 | 8 | 31 | 30 | 43 | 0.17 | -0.67 | 0.07 | 0.0 | 7 | | | | | Mrs. E. Clayton. |
| terprise (near) | Washington | | 2 | | | | | | | | 2.43 | | 0.04 | 0.0 | 7 | 13 | 10 | 8 | S. | John Day. |
| ebante | Garfield | 5,700 | 8 | 66.9 | | 91 | 4 | 40 | 31 | 39 | 1.06 | | 0.35 | 0.0 | 5 | 14 | 0 | 17 | | Geo. H. Barney. |
| xperiment Farm | Washington | | 4 | 78.3 | | 102 | 7 | 49 | 30 | 45 | 0.00 | | | | | | | | | Joseph T. Atkins. |
| isco | Beaver | 7,318 | 14 | 69.6 | - 2.2 | 94 | 10 | 42 | 31 | 36 | 1.00 | -0.20 | 0.31 | 0.0 | 5 | | | | | E. R. Smyth. |
| ayson | San Juan | | 3 | 67.2 | | 94 | 7 | 40 | 31 | 42 | 1.80 | | 0.65 | 0.0 | 5 | 18 | 12 | 1 | S. | Joseph A. Lyman. |
| te | Garfield | 3,000 | 9 | 81.4 | - 0.9 | 106 | 4 | 51 | 11 | 38 | 1.14 | +0.71 | 0.32 | 0.0 | 6 | 20 | 8 | 3 | SW. | J. P. Hite. |
| anab | Kane | 4,925 | 8 | | | | | | | | | | | | | | | | | E. M. Ford. |
| San Juan | San Juan | 7,000 | 8 | 64.4 | - 3.2 | 87 | 4 | 40 | 31 | 33 | 2.26 | -1.08 | 0.81 | 0.0 | 11 | 11 | 15 | 3 | | Mrs. G. W. Carpenter. |
| aynsdale (near) | | | | | | | | | | | | | | | | | | | | |

SOUTHERN

| | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | 27. | 28. | 29. | 30. | 31. | MEAN. | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corinne | 06 59 | 02 55 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Farmington | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Fort Duchesne | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Heber | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Kellon | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Logan | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Lucin | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Meadowville | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Morgan | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Ogden No. 1 | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Park City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 01 51 | 95 52 | 7 |
| Salt Lake City | 01 54 | 02 56 | 03 58 | 01 54 | 08 70 | 95 57 | 95 56 | 01 50 | 01 50 | 99 57 | 93 51 | 02 55 | 01 58 | 80 54 | 86 49 | 94 56 | 92 50 | 94 56 | 02 58 | 04 52 | 88 53 | 92 52 | 92 52 | 92 53 | 90 49 | 80 41 | 91 42 | 89 43 | 92 51 | 88 45 | 89 42 | 80 35 | 0 | | |

TOTAL PRECIPITATION AUGUST 1905



SCALE OF SHADINGS IN INCHES



Day of month.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR SEPTEMBER, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

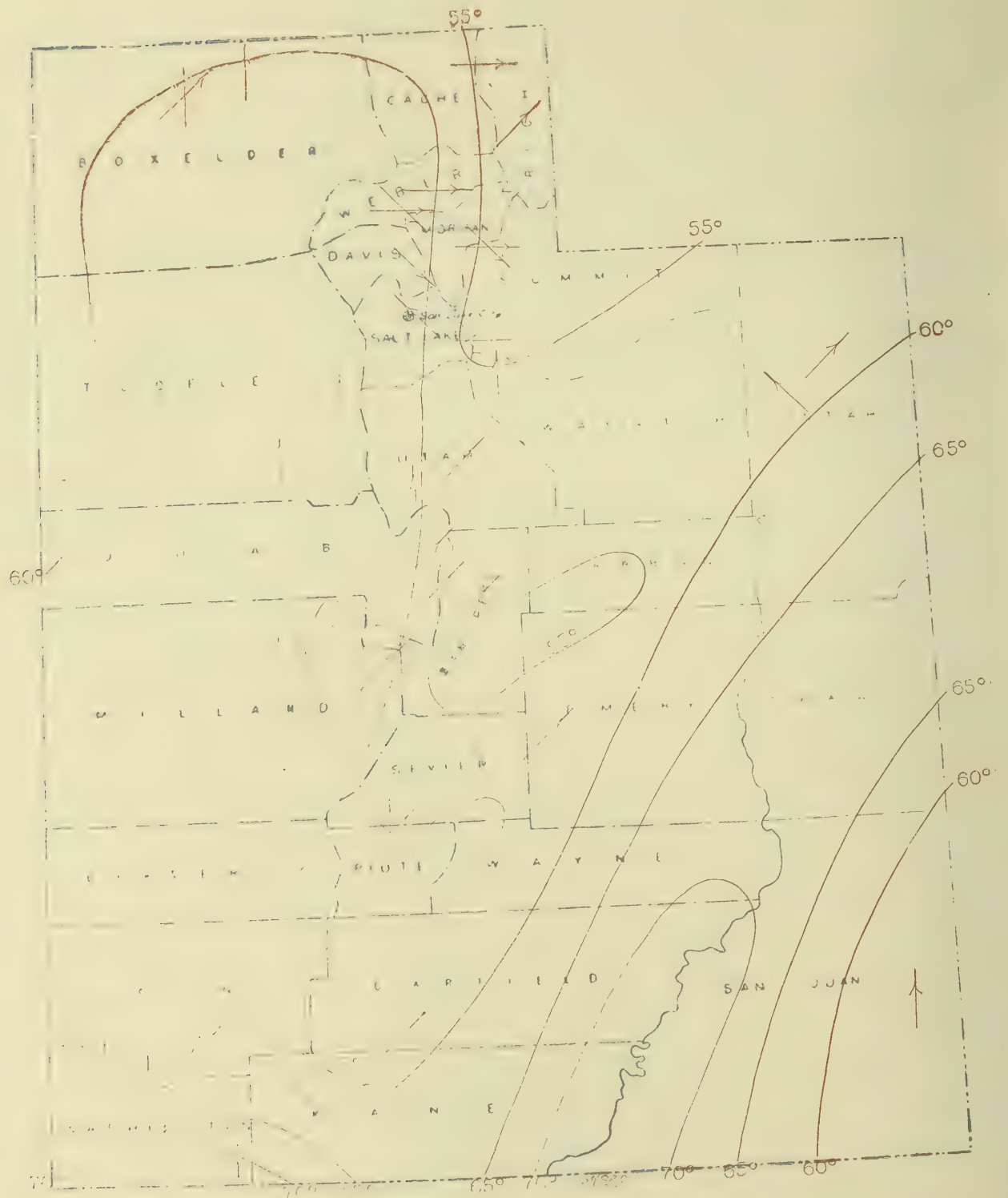
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

OCTOBER 14 1908

MEAN TEMPERATURES AND PREVAILING WINDS, SEPTEMBER, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, SEPTEMBER, 1908. No. 9

GENERAL SUMMARY.

The mean temperature for the month was slightly below the normal for the State, while the precipitation was abnormally heavy. The corresponding month in only four of the past seventeen years, was cooler than this. The precipitation for this month was greater in only one year, namely, 1905, since 1891.

Over nearly all portions of the State the temperature was below normal, the deficiency being least over the southern section, where it was less than one degree. At a very few stations thruout the State there was a slight thermal excess. Warm, pleasant weather was prevalent during the first portion of the month, while the last few days were characterized by very low temperatures. At almost all stations the maximum temperatures occurred during the first week of the month, and the minimum temperatures were nearly all recorded during the cool period at the close of the month. At this time killing frost occurred at most stations not located in the warmer valleys. The dates on which these frosts took place were much earlier than usual at the majority of the stations. Severe freezing weather obtained at this time, and much damage was caused thereby.

The precipitation was abnormally greatest over the middle section of the State. Over the southern section, where the rainfall was lightest, it was a little more than half an inch above the normal. There was one period of heavy precipitation that began during the second week of the month, and continued for several days, and another period from about the commencement of the third week and continuing for three or four days. At Silver Lake the total snowfall for the month amounted to five inches. Thunderstorms were infrequent and did little injury, but some local damage was caused by floods.

During the month the amount of sunshine was slightly below normal over practically all districts. Auroras were observed at a large number of stations from the 27th to the 29th, inclusive.

The prevailing wind direction for the State during the month was southwest. But few high velocities were reported, the winds generally being light.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 57 stations, was 59.3°, which was 1.1° below the normal.

The highest local monthly mean was 72.0° at St. George, and the lowest was 50.4° at Silver Lake.

The highest temperature recorded was 102° at Hite on the 5th and 6th, and at Springdale on the 6th, and the lowest, 8° at Park City on the 26th, giving a range for the section of 94°.

The greatest local monthly range was 75° at Richfield, and the least, 27° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 67 stations, was 1.87 inches, which was 1.02 inches above the normal for the State.

The greatest monthly amount was 4.22 inches at Silver Lake, and the least was 0.05 inch at Lucin.

The greatest amount of precipitation in any 24 consecutive hours was 2.20 inches at Silver Lake on the 24th.

There was an average of 5 days with 0.01 inch or more of precipitation; 5 over the northern, 5 over the middle, and 5 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 3865; at Modena, 6401; at Grand Junction, Colo., 3824; and at Pocatello, Idaho, 5531.

The maximum velocity at Salt Lake City was 38 miles per hour from the northwest on the 7th; at Modena, 56 miles from the southwest on the 6th; at Grand Junction, Colo., 32 miles from the southwest on the 24th; and at Pocatello, Idaho, 48 miles from the southwest on the 7th.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the section during the month was 18; partly cloudy days, 6; cloudy days, 6.

Determined from the records of automatic sunshine recorders, Salt Lake City had 76 per cent; Modena 77 per cent; Grand Junction, Colo., 77 per cent; and Pocatello, Idaho, 85 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 46 per cent, the lowest observed reading being 18 per cent on the 4th; at Modena, 55 per cent, the lowest observed reading being 19 per cent on the 18th; at Grand Junction, Colo., 40 per cent, the lowest observed reading being 9 per cent on the 7th; and at Pocatello, Idaho, 46 per cent, the lowest observed reading being 14 per cent on the 24th.

MISCELLANEOUS PHENOMENA.

Fog.—Tooele, 24.
 Haze.—Ogden, No. 2, 2, 7.
 Halo, Solar.—Salt Lake City, 19.
 Sleet.—Henefer, 26; Sunnyside, 26.
 Dust Storms.—Moroni, 7; Nephi, 7.
 Frost, light.—Moab, 1; Modena, 17; Silver Lake, 9, 10, 13.
 Halos, Lunar.—Ogden, No. 2, 11, 19; Salt Lake City, 6.
 Frost, heavy.—Park City, 25; Silver Lake, 1, 18, 19, 26, 26, 28-30; Teasdale, 25.
 Auroras.—Emery, 27; Henefer, 28, 29; Huntsville, 28; Manti, 28; Marysvale, near, 28; Ogden, No. 2, 28; Snowville, 28, 29; Vernal, 28, 29.
 Hail.—Henefer, 24, 25; La Sal, 25; Marysvale, near, 24; Modena, 24; Mt. Pleasant, 12; Park City, 17; Salt Lake City, 23; Scofield, 10, 11; Tooele, 13; Vernal, 27.
 Winds, high.—Beaver, 16; Cedar City, 16; Government Creek, 7, 8, 16; Heber, 8; Henefer, 3, 4, 7, 23; Hite, 7, 24, 25; La Sal, 16; Levan, 7, 16; Marysvale, near, 16-18, 23; Meadowville, 2, 7; Modena, 2, 6-8, 14-17, 23, 24; Mt. Nebo, 7, 15-17, 23; Nephi, 7; Nephi, near, 7, 16, 23; Ogden, No. 2, 7, 16; Pinto, 17; Ranch, 16, 25; Richfield, 16; St. George, 7; Salt Lake City, 7, 10, 16, 23, 25; Theodore, 7, 16, 17, 25, 26; Tooele, 23; Wellington, 6.
 Frost, killing.—Cedar City, 26, 27; Coyoto, 25; Emery, 26; Government Creek, 25; Heber, 27; Henefer, 1, 26; Huntsville, 26, 27; Levan, 26, 27; Manti, 26-28; Marysvale, near, 21, 26, 27; Moab, 27-29; Modena, 26; Moroni, 25; Mt. Nebo, 26, 27; Mt. Pleasant, 26, 27; Nephi, 26, 27; Nephi, near, 25-27; Ogden, No. 2, 26; Provo, 26-28; Richfield, 2, 26, 27; Salt Lake City, 27; Scipio, 1; Silver Lake, 27; Snowville, 27; Teasdale, 23, 24, 26, 27; Theodore, 1, 26, 29; Thistle, 1; Tooele, 25, 26; Vernal, 26.
 Thunderstorms.—Beaver, 8, 9, 24; Farmington, 7, 9, 16; Ft. Duchesne, 24; Heber, 17; Henefer, 10, 12, 14, 16; Hite, 12, 24; Huntsville, 7, 10, 12, 16, 23; La Sal, 14, 24; Levan, 7, 10, 11, 16, 23; Marysvale, near, 6-8, 10, 14, 24; Meadowville, 7, 10, 12, 14, 16; Moab, 19, 24; Modena, 7, 12, 24; Moroni, 16; Mt. Nebo, 8, 12, 17; Mt. Pleasant, 12, 24; Nephi, 12; Ogden, No. 2, 7, 10, 11, 16, 23; Park City, 17; Provo, 12, 17; Ranch, 2, 7-10, 24; Randolph, 8, 13; Saltair Beach, 10, 17, 24; Salt Lake City, 7, 10, 11, 16, 23; Silver Lake, 8, 17; Snowville, 16; Sunnyside, 24; Theodore, 11, 13, 14, 17, 23, 24; Tooele, 8, 9, 12, 13; Tropic, 12, 14, 24; Vernal, 20.

ERRATA.

June, 1908, report: Page 45.—Salt Lake City, total precipitation, recorded as 1.79 inches, should be 1.81 inches. Fillmore, greatest daily range, recorded as 52°, should be 53°. Nephi, greatest precipitation in 24 hours, recorded as 0.50 inch, should be 0.54 inch.

Page 48.—Castle Dale, precipitation, recorded as 0.10 inch, should be 0.15 inch. Salt Lake City, precipitation, recorded as 1.79 inches, should be 1.81 inches.

OBSERVERS' REMARKS.

Deseret.—Warm weather prevailed during the greater part of the month. The precipitation was unusually heavy. Considerable damage was caused by a frost on the 27th.—S. W. Western.

Emery.—The early part of the month was unseasonably warm; the latter portion was very cool.—H. C. Wickman.

Government Creek.—On the 24th and 25th, rain fell to the amount of 2.27 inches, which was the heaviest fall ever recorded here during one storm.—Walter James.

Heber.—Exceptionally low temperatures prevailed at night but they were relatively high during the day. A severe killing frost occurred on the 27th. Ice formed on that date to the thickness of one-half inch, being unseasonably early for freezing temperature at this station.—John Crook.

Henefer.—Storms were frequent during the month. That which occurred on the 24th, was the heaviest 24-hour fall on record here.—Wm. Brewer.

Hite.—Fine weather prevailed during the month. There were only three cloudy days, the precipitation was light, and no frosts occurred.—John P. Hite.

Huntsville.—The weather during the month was stormy but quite warm, with the exception of a few cool nights.—Lars Petersen.

Levan.—The precipitation was unusually heavy for the month of September. Killing frosts occurred on the 26th and 27th, causing extensive damage in this locality.—Wm. Brown.

Marysvale.—The temperature for the month was nearly normal, while the precipitation was nearly twice the usual amount.—John W. Henry.

Meadowville.—The past month has been very cold and stormy.—J. S. Moffat.

Mt. Nebo.—More than the average amount of precipitation fell during the month. Killing frosts occurred on the 26th and 27th.—D. C. Walkey.

WATER STAGES.

The level of Great Salt Lake on September 1st was 3.2 feet above zero; on September 15th, 3.1 feet above, and on October 1st, 3.0 feet above.

COMPARATIVE STATE DATA FOR SEPTEMBER.

| Year. | Temperature. | | | Average Precipitation. |
|------------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 67.0 | 104 | 28 | 1.89 |
| 1892 | 64.6 | 102 | 20 | 0.09 |
| 1893 | 58.0 | 99 | 12 | 0.84 |
| 1894 | 57.0 | 102 | 12 | 1.30 |
| 1895 | 60.8 | 103 | 9 | 0.60 |
| 1896 | 61.0 | 110 | 16 | 1.00 |
| 1897 | 62.2 | 100 | 25 | 1.64 |
| 1898 | 61.0 | 102 | 18 | 0.10 |
| 1899 | 65.3 | 103 | 22 | 0.05 |
| 1900 | 57.4 | 96 | 10 | 1.20 |
| 1901 | 59.3 | 100 | 11 | 0.21 |
| 1902 | 60.1 | 103 | 10 | 0.56 |
| 1903 | 58.5 | 103 | 16 | 0.90 |
| 1904 | 61.1 | 102 | 20 | 0.40 |
| 1905 | 60.7 | 104 | 12 | 2.10 |
| 1906 | 59.6 | 99 | 20 | 1.33 |
| 1907 | 59.4 | 111 | 17 | 0.44 |
| 1908 | 59.3 | 102 | 8 | 1.87 |

CLIMATOLOGICAL DATA, SEPTEMBER, 1908.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit | | | | | | Precipitation, in inches | | | | | | Sky. | | | | | | Observer. |
|-------------------|------------|------------------|--------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|-------------------------|--------------------|----------------------------|---------------------|-------------------------------|-------------------------|--|-----------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total seasonal (estimated). | Days with rain or snow. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 12 | | | | | | | | | | | | | | | | | T. B. Whitby. | | |
| Castle Rock | Summit | | 4 | | | | | | | | | | | | | | | | | David Moore. | | |
| Corinne | Boxelder | 4,240 | 38 | 61.8 | -1.6 | 101 | 6 | 23 | 27 | 52 | 1.46 | -0.81 | 0.00 | 0.0 | 4 | 13 | 14 | 1 | | Agent So. Pacific R. R. | | |
| Drummond | Davis | 4,207 | 8 | 60.2 | -0.1 | 90 | 6 | 27 | 27 | 40 | 0.62 | -1.67 | 1.08 | T. | 5 | 20 | 8 | 2 | nw. | Charles Boylin. | | |
| El Duchesne | Uinta | 5,000 | 20 | 57.0 | -3.8 | 93 | 6 | 24 | 30 | 54 | 1.62 | -0.42 | 1.10 | 0.0 | 1 | 20 | 0 | 4 | se. | Post surgeon. | | |
| Frontville (near) | Tooele | | 2 | | | | | | | | | | | | | | | | | A. J. Frazer. | | |
| Heber | Wasatch | 5,000 | 15 | 55.4 | -0.1 | 90 | *5 | 20 | 27 | 52 | 2.42 | -1.22 | 1.30 | 0.0 | 6 | 10 | 10 | 4 | | John Crook. | | |
| Intermountain | Summit | 5,301 | 9 | 55.0 | -2.1 | 92 | 5 | 22 | 26 | 58 | 3.30 | -2.30 | 1.61 | T. | 9 | 18 | 8 | 4 | nw. | William Brewster. | | |
| Juniper | Weber | 5,100 | 13 | | | | | | | | | | | | | | | | | Lars Petersen. | | |
| Logan | Boxelder | 4,230 | 30 | 59.6 | -1.6 | 94 | 5 | 20 | *24 | 41 | 0.14 | -0.30 | 0.10 | 0.0 | 2 | 21 | 7 | 2 | e. | Agent So. Pacific R. R. | | |
| Morgan | Cache | 4,507 | 17 | 60.2 | -1.1 | 86 | 6 | 27 | 27 | 33 | 1.32 | +0.24 | 0.69 | T. | 5 | | | | | Agricultural College. | | |
| North | Boxelder | | 3 | 62.7 | | 94 | *5 | 21 | *26 | 55 | 0.95 | | 0.05 | 0.0 | 1 | | | | | C. J. Burke. | | |
| Paria | Summit | | 3 | | | | | | | | | | | | | | | | | J. Woolstenhulme. | | |
| Panguitch | Rich | 6,200 | 9 | 53.7 | -0.3 | 87 | 6 | 23 | 27 | 45 | 2.07 | +1.24 | 1.00 | 1.00 | 6 | 22 | 5 | 3 | w. | J. S. Moffat. | | |
| Panguitch | Cache | 4,848 | 13 | | | | | | | | | | | | | | | | | Fred Yates. | | |
| Panguitch | Morgan | 5,080 | 5 | 55.2 | | 90 | 4 | 21 | 27 | 58 | 2.22 | | 1.25 | T. | 4 | 6 | 18 | 6 | nw. | W. Visick. | | |
| Panguitch | Weber | 4,310 | 7 | 61.3 | -0.9 | 89 | 6 | 30 | 26 | 28 | 2.42 | +1.73 | 0.95 | 0.0 | 4 | 23 | 4 | 3 | nw. | Enoch Farr. | | |
| Panguitch | Weber | 4,310 | 38 | 64.4 | -1.1 | | | | | | | | | | | | | | | W. H. Chevers. | | |
| Panguitch | Summit | 7,800 | 11 | 53.0 | -1.4 | 74 | 10 | 8 | 26 | 43 | 2.34 | +1.63 | 1.44 | T. | 2 | 17 | 5 | 8 | | Hubert T. Jones. | | |
| Panguitch | Boxelder | | | | | | | | | | | | | | | | | | | F. C. Houghton. | | |
| Panguitch | Rich | | 3 | | | | | | | | | | | | | | | | | Wm. Rex. | | |
| Panguitch | Salt Lake | | 4 | 62.0 | | 88 | 7 | 32 | 27 | 27 | 2.40 | | 0.90 | 0.0 | 7 | | | | | E. J. Bench. | | |
| Panguitch | Salt Lake | 4,366 | 34 | 63.4 | -1.7 | 92 | 6 | 32 | 27 | 35 | 2.72 | +1.87 | 1.70 | T. | 6 | 15 | 12 | 3 | se. | Section Center. | | |
| Panguitch | Salt Lake | | 1 | 50.4 | | 82 | 5 | 15 | 27 | 40 | 4.22 | 0.00 | 2.20 | 5.00 | 7 | 17 | 8 | 5 | e. | N. J. Ferheraff. | | |
| Panguitch | Boxelder | 4,360 | 18 | 58.4 | 0.0 | 93 | 5 | 11 | 27 | 61 | 0.42 | -0.13 | 0.20 | 0.0 | 4 | 15 | 13 | 2 | s. | Joseph Robbins. | | |
| Panguitch | Wasatch | | 2 | | | | | | | | | | | | | | | | | S. A. Chivens. | | |
| Panguitch | Wasatch | 5,507 | 2 | 57.7 | | 90 | 6 | 19 | 22 | 48 | 1.17 | | 0.60 | T. | 5 | 12 | 13 | 5 | | M. M. Smith. | | |
| Panguitch | Tooele | 4,900 | 12 | 61.7 | -2.3 | 92 | 6 | 28 | 26 | 42 | 3.85 | +3.24 | 1.42 | | 7 | 7 | 12 | 11 | s. | E. A. Bonneli. | | |
| Panguitch | Uinta | | 13 | 59.4 | -0.7 | 88 | 7 | 26 | 27 | 40 | 1.89 | +0.64 | 1.04 | 0.0 | 5 | 23 | 3 | 4 | sw. | Joab Collier. | | |
| Panguitch | Rich | 6,500 | 11 | | | | | | | | | | | | | | | | | James Stuart. | | |
| Panguitch | | | | 59.0 | -1.4 | | | | | | 1.96 | +1.05 | | 0.03 | 5 | 18 | 8 | 4 | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | |
| Albion | Sevier | | 2 | 57.6 | | 91 | 5 | 23 | *26 | 51 | 1.00 | | 0.93 | 0.0 | 3 | | | | | J. W. Fairbanks. | | |
| Albion | Millard | 4,872 | 8 | | | | | | | | | | | | | | | | | A. H. Cassell. | | |
| Albion | Emery | 5,500 | 9 | 59.4 | +0.9 | 90 | 6 | 24 | 26 | 47 | 1.25 | +0.43 | 0.60 | 0.0 | 3 | 21 | 4 | 5 | | James Jeffs. | | |
| Albion | Millard | 4,541 | 14 | 61.1 | +0.9 | 90 | 6 | 24 | 27 | 55 | 2.00 | +1.34 | 1.20 | 0.0 | 3 | 21 | 2 | 7 | s. | S. W. Western. | | |
| Albion | Uinta | | 8 | 56.4 | +1.9 | 82 | *1 | 22 | 28 | 52 | 1.05 | +0.46 | 0.55 | 0.0 | 2 | 13 | 9 | 8 | sw. | H. J. Cooper. | | |
| Albion | Emery | 6,260 | 18 | 65.1 | +2.6 | 100 | 6 | 26 | 26 | 47 | 2.02 | +1.06 | 1.05 | 0.0 | 5 | | | | | H. C. Wickman. | | |
| Albion | Millard | | 5 | | | | | | | | | | | | | | | | | J. J. Starley. | | |
| Albion | Tooele | 5,277 | 8 | 62.0 | +0.6 | 94 | 5 | 23 | 26 | 39 | 3.22 | +2.59 | 1.85 | 0.0 | 4 | 17 | 3 | 10 | s. | E. M. Smith. | | |
| Albion | Emery | 4,080 | 11 | 66.8 | +2.1 | 101 | *5 | 30 | *27 | 60 | 1.37 | +0.72 | 0.71 | 0.0 | 3 | 28 | 0 | 2 | | Walter James. | | |
| Albion | Tooele | 7,500 | 2 | 58.0 | | 85 | 6 | | | | 0.27 | | | 0.0 | | | | | | J. H. Fritz. | | |
| Albion | Millard | | 1 | | | | | | | | 2.13 | | 1.71 | 0.0 | 4 | | | | | Mrs. J. S. Lawton. | | |
| Albion | Sanpete | 5,010 | 18 | 58.4 | -2.0 | 88 | 6 | 25 | *26 | 40 | 2.89 | +1.65 | 1.23 | 0.0 | 6 | 19 | 6 | 5 | sw. | Geo. Crane. | | |
| Albion | Sanpete | 5,175 | 14 | 52.1 | -9.0 | 78 | 6 | 22 | 27 | 33 | 2.22 | +1.21 | 1.20 | 0.0 | 6 | 10 | 3 | 11 | | William Brown. | | |
| Albion | Sanpete | | | | | | | | | | 2.55 | | 1.25 | 0.0 | 7 | 15 | 14 | 1 | sw. | J. M. Anderson. | | |
| Albion | Utah | 4,650 | 7 | 62.6 | -0.2 | 95 | 6 | 28 | 26 | 44 | 1.50 | +0.97 | 0.88 | 0.0 | 7 | 21 | 6 | 3 | s. | B. F. Eliason. | | |
| Albion | Sanpete | 5,859 | 16 | 59.2 | -2.5 | 91 | 6 | 20 | 26 | 46 | 2.28 | +1.38 | 1.20 | 0.0 | 5 | 18 | 5 | 0 | | D. C. Walkey. | | |
| Albion | Sanpete | | 3 | | | | | | | | 2.62 | | 1.33 | 0.0 | 7 | 25 | 3 | 2 | sw. | Miss Olive E. Peck. | | |
| Albion | Utah | 4,637 | 3 | 65.2 | | 98 | 6 | 32 | 28 | 51 | 2.34 | | 1.41 | 0.0 | 4 | 20 | 4 | 6 | w. | A. Madsen. | | |
| Albion | Utah | | 3 | | | | | | | | 2.03 | | 1.16 | 0.0 | 9 | 13 | 8 | 9 | sw. | J. Finlinson. | | |
| Albion | Utah | 4,532 | 10 | 60.3 | +0.3 | 94 | 6 | 25 | 27 | 48 | 2.77 | -2.38 | 1.25 | 0.0 | 6 | 15 | 14 | 1 | | D. L. Coombs. | | |
| Albion | Sevier | 5,350 | 16 | 56.9 | -1.5 | 90 | 2 | 14 | 27 | 75 | 1.15 | +0.67 | 0.52 | 0.0 | 4 | 20 | 0 | 10 | | James A. Oliver. | | |
| Albion | Millard | 5,260 | 13 | 57.6 | -2.1 | 92 | 6 | 20 | 27 | 53 | 2.09 | +1.23 | 1.13 | 0.0 | 5 | 14 | 4 | 12 | sw. | J. J. Jensen. | | |
| Albion | Carbon | | 3 | | | 83 | 6 | | | | 3.37 | | 1.49 | | 8 | 18 | 4 | 8 | | Thomas Memmott. | | |
| Albion | Utah | 7,474 | 16 | | | | | | | | | | | | | | | | | O. E. Jorgensen. | | |
| Albion | Carbon | | 3 | | | | | | | | 1.60 | | 0.70 | T. | 6 | | | | | Agent Rio Grande R. R. | | |
| Albion | Utah | 5,075 | 16 | 58.2 | 0.0 | 92 | *2 | 21 | *29 | 66 | 1.75 | +0.41 | 1.00 | 0.0 | 2 | | | | | Henry Cullum. | | |
| Albion | Utah | | 3 | | | | | | | | | | | | | | | | | Ag. Rio Grande W. R. R. | | |
| Albion | Carbon | 5,540 | 9 | 52.3 | -6.6 | 85 | 6 | 21 | 27 | 50 | | | | | | | | | | Frank Parker. | | |
| Albion | | | | 59.4 | -1.1 | | | | | | 2.10 | +1.20 | | T. | 5 | 19 | 5 | 6 | sw. | W. A. Knight. | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | |
| Albion | San Juan | 4,800 | 8 | | | | | | | | | | | | | | | | | Miss S. Hubert. | | |
| Albion | Beaver | | 3 | 58.0 | | 89 | *5 | 26 | 26 | 45 | 2.29 | | 1.06 | 0.0 | 6 | 15 | 14 | 1 | sw. | James Connell. | | |
| Albion | Iron | | 4 | 62.4 | | 89 | 6 | 26 | 27 | 34 | 2.30 | | 0.95 | 0.0 | 6 | 10 | 13 | 7 | ne. | J. M. Foster. | | |
| Albion | Garfield | | 7 | 55.3 | +2.4 | 86 | 4 | 19 | 25 | 46 | 1.40 | +0.95 | 0.80 | 0.0 | 4 | 19 | 0 | 11 | | Mrs. E. Clayton. | | |
| Albion | Washington | | 2 | | | | | | | | | | | | | | | | | John Day. | | |
| Albion | Garfield | 5,700 | 8 | 60.6 | -0.9 | 89 | 6 | 22 | 27 | 42 | 1.61 | | 0.80 | 0.0 | 5 | 21 | 6 | 9 | s. | Geo. H. Barney. | | |
| Albion | Washington | | 4 | | | | | | | | | | | | | | | | | Joseph T. Atkins. | | |
| Albion | Beaver | 7,318 | 14 | 60.2 | -2.9 | 90 | 6 | 27 | 27 | 34 | 1.87 | +1.27 | 0.75 | 0.0 | 3 | | | | | E. R. Smyth. | | |
| Albion | San Juan | | 3 | 59.4 | | 89 | 6 | 20 | *26 | 44 | 2.30 | | 1.55 | 0.0 | 4 | 23 | 1 | 0 | s. | Joseph A. Lyman. | | |
| Albion | Garfield | 3,000 | 9 | 71.8 | -0.4 | 102 | *5 | 39 | 27 | 45 | 0.63 | +0.01 | 0.50 | 0.0 | 2 | 22 | 5 | 3 | | J. P. Hite. | | |
| Albion | Kane | 4,925 | 8 | | | | | | | | | | | | | | | | | E. M. Ford. | | |
| Albion | San Juan | 7,000 | 16 | 57.7 | -0.2 | 86 | 6 | 19 | 27 | 36 | 1.20 | -0.09 | 0.80 | 0.0 | 4 | 18 | 8 | 4 | | Mrs. G. W. Carpenter. | | |
| Albion | Wayne | 7,000 | 16 | 50.6 | -3.0 | 80 | 6 | 15 | 27 | 42 | 0.60 | +0.08 | 0.30 | 0.0 | 3 | | | | | Michael Hansen. | | |
| Albion | Piute | 6,180 | 9 | 57.1 | -0.6 | 88 | 6 | 20 | 27 | 50 | 2.26 | +1.24 | 0.62 | 0.0 | 10 | 12 | 8 | 10 | sw. | John W. Henry. | | |
| Albion | Beaver</ | | | | | | | | | | | | | | | | | | | | | |

This is a detailed geological map of the Salt Lake Valley and surrounding regions in Utah. The map shows various geological formations, topographic features, and administrative boundaries. Key features include:

- Counties:** Box Elder, Cache, Davis, Summit, Tooele, Wasatch, Utah, Garfield, San Pete, Carbon, Emery, Grand, Sevier, Blaine, Piute, Wayne, Kane, and Washington.
- Cities:** Salt Lake City, Ogden, Provo, and others.
- Geological Formations:** Various shaded and patterned areas representing different geological units, such as the Wasatch-Cache National Park and the Great Salt Lake.
- Topographic Features:** Mountains, valleys, and rivers.
- Scale:** A scale bar at the bottom indicates distances in miles and kilometers.

[] [] [] [] []

[] [] [] [] []

Day of month.

T. indicates a trace of precipitation. * Precipitation included in that of following day. † Precipitation incomplete.
 ‡ Total complete; daily values not used

257.00
UNH

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR OCTOBER, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

VERNE H. CHURCH.

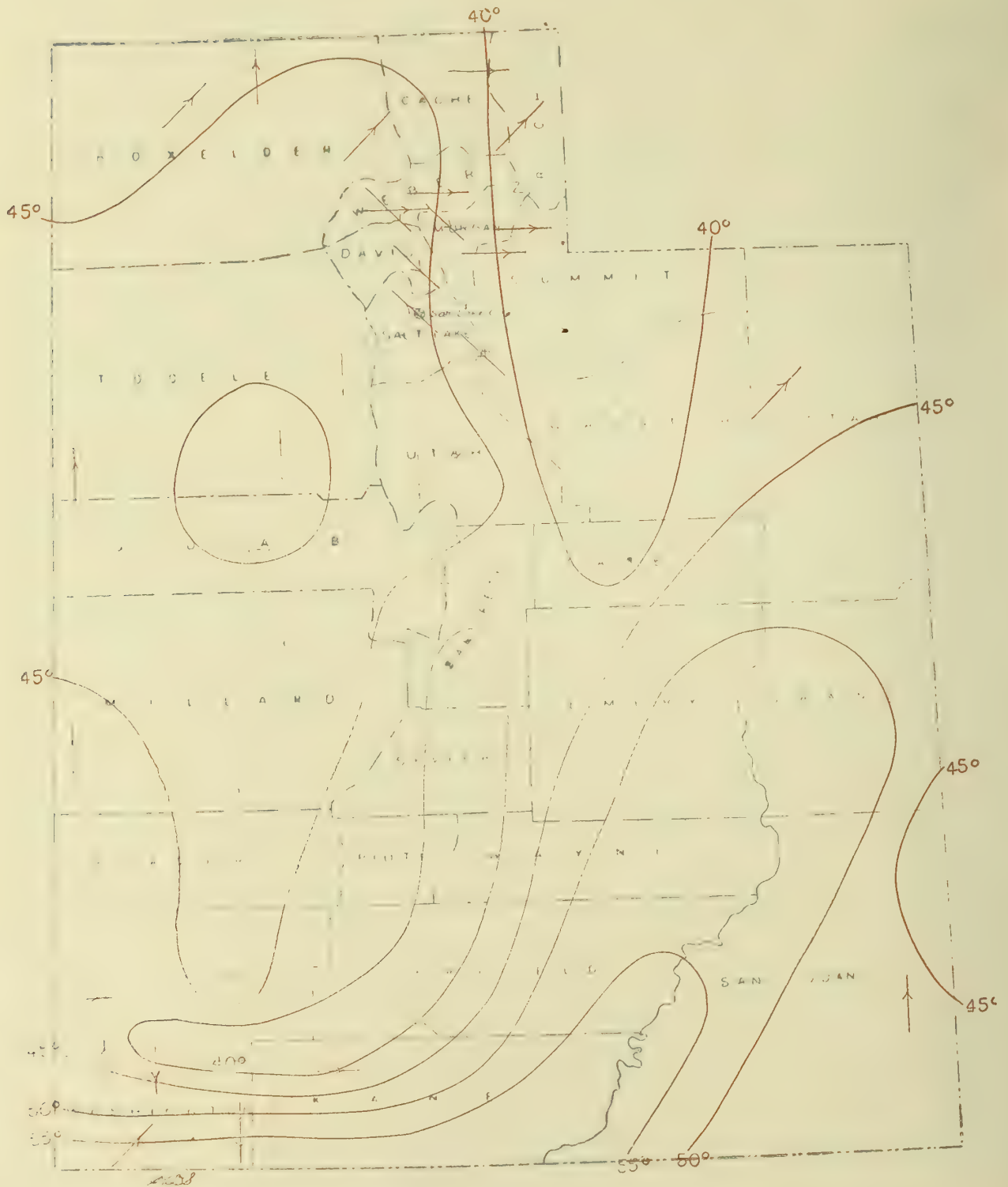
ACTING SECTION DIRECTOR.



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

NOVEMBER 14, 1908

MEAN TEMPERATURES AND PREVAILING WINDS, OCTOBER, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

VERNE H. CHURCH,

ACTING SECTION DIRECTOR.

X. SALT LAKE CITY, UTAH, OCTOBER, 1908. No. 10

GENERAL SUMMARY.

The mean temperature for the month was much below the normal for the State, while the precipitation was very heavy, being three times the average amount. The month was the best October during the past 17 years. The lowest mean temperature for the month during the preceding 16 years was 2° in 1905. The amount of precipitation exceeded all previous records for October during the same 17-year period. For the month in 1897, 2.18 inches was the average for the State, the greatest amount prior to 1908, and the only year having an October rainfall in excess of 2.00 inches. The temperature averaged from 3° to 5° below the normal in all portions of the State. The deficiency was least over the middle section, where, at a few places in the Green River valley, a slight excess occurred. The only days during the month having mean temperatures above the normal were the 8th to 13th, and 27th to 31st. Very cool weather, with temperatures from 12° to 18° below the normal, prevailed from the 16th to the 25th. The minimum temperatures for the month were generally recorded between the 21st and 24th. The precipitation was uniformly heavy over all sections of the State, the total amount, as well as the excess above the normal, being greatest over the northern and least over the southern section. The rainfall occurred chiefly in two periods, from the 2d to the 5th, and from the 15th to the 21st, the remaining portions of the month being without precipitation nearly all stations. Considerable snow fell in the mountain districts, but very little in the valleys. At Silver Lake, the monthly snowfall was 39.5 inches. The amount of sunshine was considerably less than normal for the month. The deficiency occurred during the first and second decades, the latter portion of the month being clear and pleasant. High winds accompanied the stormy conditions which prevailed during the middle portion of the month. The only damage reported from that cause was at Ogden, where a number of shade trees were blown down on the 18th.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 58 stations, was 44.8°, which was 4.0° below the normal.

The highest local monthly mean was 56.7° at Springdale, and the lowest was 36.0° at Silver Lake.

The highest temperature recorded was 94° at St. George on the 13th, and the lowest, —5° at Park City on the 24th, giving a range for the section of 99°.

The greatest local monthly range was 77° at Thistle, and the least, 44° at Milford.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 2.22 inches, which was 1.48 inches above the normal for the State.

The greatest monthly amount was 4.94 inches at Ogden No. 1, and the least was 0.20 inch at Lucin.

The greatest amount of precipitation in any 24 consecutive hours was 2.16 inches at Ogden No. 1 on the 4th.

There was an average of 6 days with 0.01 inch or more of precipitation; 7 over the northern, 5 over the middle, and 5 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4243; at Modena, 7612; at Grand Junction, Colo., 3588; and at Pocatello, Idaho, 6160.

The maximum velocity at Salt Lake City was 40 miles per hour from the northwest on the 15th; at Modena, 56 miles from the southwest on the 15th; at Grand Junction, Colo., 36 miles from the south on the 16th; and at Pocatello, Idaho, 37 miles from the southwest on the 1st.

CLOUDINESS.

The average number of clear days for the section during the month was 17; partly cloudy days, 5; cloudy days, 9.

According to the records of automatic sunshine recorders, Salt Lake City had 53 per cent; Modena 71 per cent; Grand Junction, Colo., 65 per cent; and Pocatello, Idaho, 65 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 60 per cent, the lowest observed reading being 20 per cent on the 14th; at Modena, 57 per cent, the lowest observed reading being 18 per cent on the 1st; at Grand Junction, Colo., 51 per cent, the lowest observed reading being 9 per cent on the 2d; and at Pocatello, Idaho, 62 per cent, the lowest observed reading being 18 per cent on the 1st.

MISCELLANEOUS PHENOMENA.

Auroras.—Ibapah, 4.

Sandstorm.—Moab, 2.

Fog.—Morgan, 24; Salt Lake City, 3-6, 17; Tooele, 2.

Thunderstorms.—Heber, 1; Moab, 3; Theodore, 2, 3.

Halo, solar.—Henefer, 16; Salt Lake City, 8, 12, 17, 29, 30.

Halo, lunar.—Modena, 28; Ogden, No. 2, 8, 11; Salt Lake City, 11.

Corona, lunar.—Marysvale, 29; Ogden, No. 2, 29; Salt Lake City, 13.

Hail.—Government Creek, 16; Ibapah, 16; Levan, 20; Meadowville, 3; Mt. Pleasant, 2.

Sleet.—Ft. Duchesne, 16; Government Creek, 3, 16-19; Henefer, 18, 19; Meadowville, 3; Moroni, 16, 18; Payson, 16, 17; Pinto, 16; Saltair Beach, 18, 19; Sunnyside, 18; Tooele, 2; Tropic, 18.

High Winds.—Castle Rock, 14, 18; Enterprise, 14, 15; Farmington, 17, 18; Garrison, 1, 11, 13-15, 20, 29, 30; Government Creek, 14, 15; Grayson, 2; Henefer, 11, 14; Hite, 2, 2; Ibapah, 1, 18, 19; La Sal, 12; Levan, 14, 15; Marysvale, 2, 11, 14, 15; Meadowville, 15, 20; Modena, 1, 2, 11-15, 19, 20, 22; Morgan, 14; Mt. Nebo, 1, 14, 15; Nephi, near, 2, 14, 15; Ogden, No. 2, 1, 11, 14, 15, 17, 18; Pinto, 11, 12, 14, 15; Ranch, 16; St. George, 14; Saltair Beach, 2, 15; Salt Lake City, 2, 14, 15, 20; Scipio, 14, 15; Silver Lake, 13, 14; Sunnyside, 1-3, 15; Theodore, 2, 5, 18, 19; Tooele, 11, 14; Tropic, 14.

ERRATA.

August, 1908, report. Page 61:—Castle Dale, total precipitation, recorded as trace, should be 0.75 inch. Experiment Farm, total precipitation, recorded as 0.00, should be blank. Ft. Duchesne, greatest precipitation in 24 hours, recorded as 0.41 inch, should be 0.45 inch. Heber, greatest precipitation in 24 hours, recorded as 0.58 inch, should be 0.70 inch. Marysvale, total precipitation, recorded as 1.17 inches, should be 1.77 inches. Richfield, highest temperature recorded as 97° on the 16th, should be 94° on the 24th. St. George, greatest daily range, recorded as 40°, should be 49°. Scofield, greatest precipitation in 24 hours, recorded as 0.52 inch, should be 0.71. Tooele, greatest daily range, recorded as 34°, should be 37°.

Page 64.—Castle Dale, daily amounts of precipitation should be blank; total precipitation recorded as trace, should be 0.75 inch. Experiment Farm, total precipitation recorded as 0.00, should be blank.

LATE REPORTS.

For September: Garrison, mean temperature, 62.1°; maximum temperature, 89° on the 4th and other dates; minimum temperature, 22° on the 29th; greatest daily range, 49°; total precipitation, 2.01 inches; greatest in 24 hours, 1.70 inches; number of rainy days, 5; clear days, 16; partly cloudy days, 5; cloudy days, 6. Prevailing wind direction, south.

Experiment Farm, mean temperature, 69.1°; maximum temperature, 102° on the 6th; minimum temperature, 33° on the 26th; greatest daily range, 49°; number of clear days, 15; partly cloudy days, 2; cloudy days, 13.

OBSERVERS' REMARKS.

Emery.—The fore part of the month was very pleasant. Heavy rainstorms occurred from the 16th to the 18th, inclusive, and much snow fell in the mountains during this period.—H. C. Wickman.

Government Creek.—The temperature was abnormally throughout the month. From 15th to the 19th, inclusive, period of cold, stormy weather, while the latter part of month was fair, but rather cool.—Walter James.

Heber.—October was a very stormy month. An unusual severe storm prevailed from the 15th to the 20th. During this period much snow fell.—John Crook.

Henefer.—The temperature during the month was below the normal, and the precipitation was more than twice the usual amount.—Wm. Brewer.

Huntsville.—Two storm periods occurred during the month. The first was from the 2d to the 4th, and the second was from the 15th to the 20th. The remainder of the month was characterized by pleasant weather.—Lars Petersen.

La Sal.—The snowstorm of the 2d was unusually severe. The precipitation for the month was abnormally heavy. Gertrude W. Carpenter.

Marysvale.—The temperature of the month was abnormally low, while the precipitation was greatly in excess of the normal amount.—John W. Henry.

Meadowville.—Much disagreeable weather occurred during the month, and considerable damage was caused by storm. S. Moffat.

Morgan.—The month was remarkable for the frequent great range in daily temperatures, and on account of the excessive precipitation.—W. Visick.

Mt. Nebo.—The temperature was lower than usual, and the precipitation was excessive in amount.—D. C. Walkey.

WATER STAGES.

The level of Great Salt Lake on October 1st was 3.0 feet above zero; on October 15th, 3.1 feet above, and on November 1st, 3.1 feet above.

COMPARATIVE STATE DATA FOR SEPTEMBER.

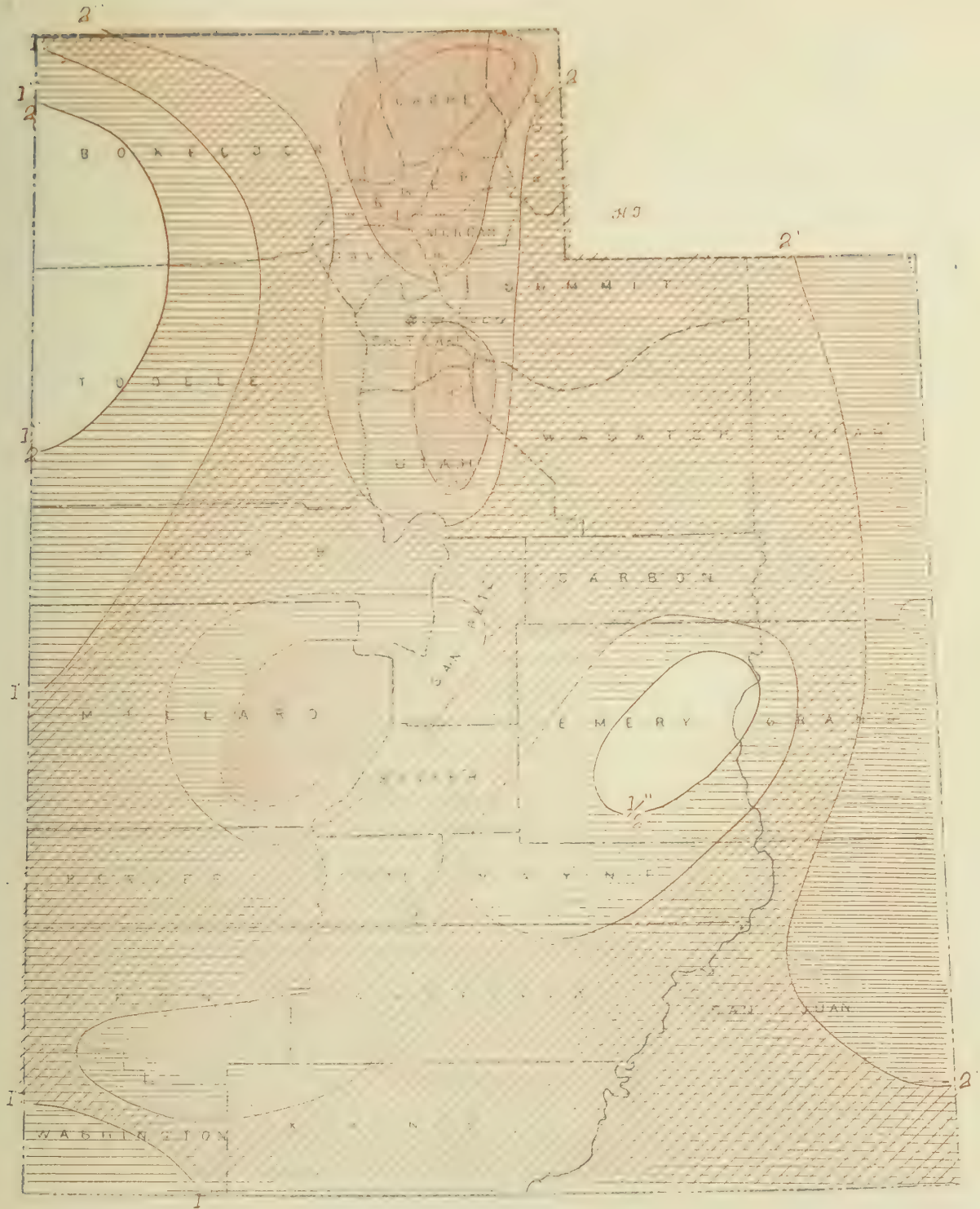
| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 49.7 | 90 | 12 | 0.15 |
| 1892 | 48.3 | 92 | 7 | 1.08 |
| 1893 | 46.9 | 92 | 5 | 0.29 |
| 1894 | 49.8 | 94 | 9 | 0.47 |
| 1895 | 49.2 | 95 | 10 | 0.56 |
| 1896 | 51.0 | 94 | 13 | 1.61 |
| 1897 | 47.8 | 86 | 7 | 2.18 |
| 1898 | 47.0 | 90 | 3 | 0.67 |
| 1899 | 45.6 | 96 | 9 | 1.50 |
| 1900 | 48.9 | 95 | — | 0.28 |
| 1901 | 51.7 | 93 | 5 | 1.04 |
| 1902 | 50.0 | 91 | 8 | 0.87 |
| 1903 | 50.3 | 97 | 6 | 0.89 |
| 1904 | 48.7 | 97 | 7 | 0.94 |
| 1905 | 45.4 | 99 | 0 | 0.36 |
| 1906 | 48.4 | 98 | 6 | 0.34 |
| 1907 | 52.5 | 90 | 17 | 1.45 |
| 1908 | 44.8 | 94 | — 5 | 2.22 |

Temperature in degrees Fahrenheit Precipitation in inches

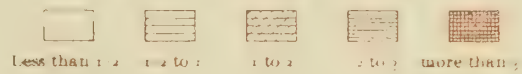
* Also on subsequent dates. † Temperature data from 7 a. m., 2 p. m. and 9 p. m. readings. ‡ Thermometers not supplied by Weather Bureau.
§ Rain gage not supplied by Weather Bureau. ¶ Incomplete.

†At these stations thermometers are read in the morning; maximum temperature then observed appears in maximum column for the preceding day on which it nearly always occurs. —10 or more in black letter.

TOTAL PRECIPITATION OCTOBER 1908



SCALE OF SHADES IN INCHES



Daily Precipitation, October, 1908.

[illegible]

† Precipitation incomplete.

881.02
UNB

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR NOVEMBER, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

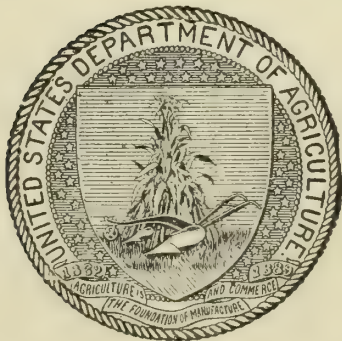
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

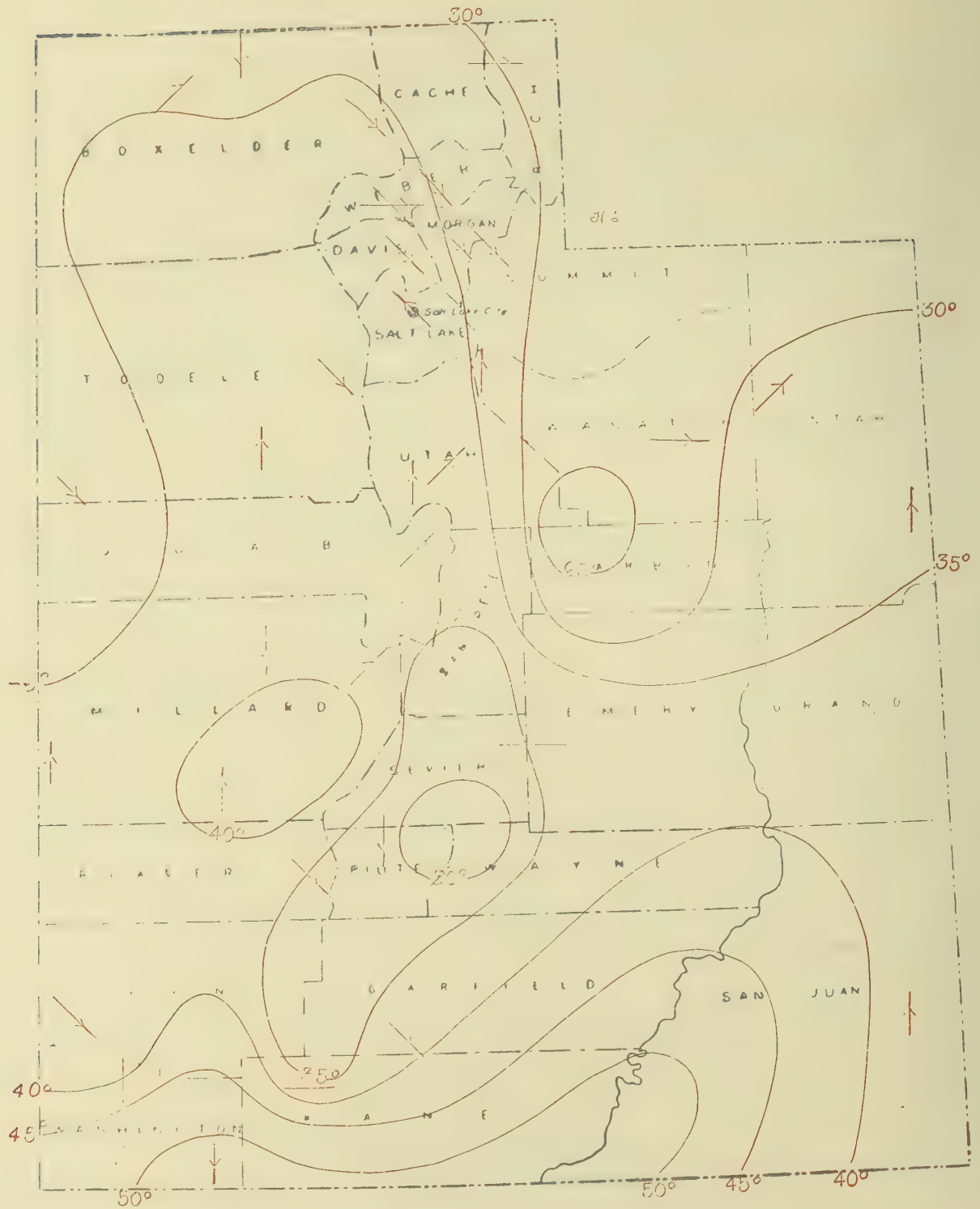
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

DECEMBER 12, 1908.

MEAN TEMPERATURES AND PREVAILING WINDS, NOVEMBER, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, NOVEMBER, 1908. No. 11

GENERAL SUMMARY.

The mean temperature and average precipitation for the State were below the normal. Altho the deficiency in temperature for the month was not great, November was colder during only four of the last 17 years, namely: 1893, 1895, 1896 and 1898; the lowest mean temperature, 32.7°, occurring in 1895. Since 1891, the average precipitation for November has varied in amount from a trace, which occurred in 1904, to 1.81 inches, recorded in 1906. In November, 1907, the amount was only slightly more than one-half that for the same month in 1908.

The deficiency in temperature was least over the middle section. It was general over nearly all portions of the State, the few exceptions being confined to small areas in widely distributed districts, where a slight excess occurred. Zero temperatures, or lower, were recorded at the elevated stations over all sections. The temperature was above the normal during the first and second decades of the month. Abnormally cold weather prevailed during the last decade, the monthly minimum temperatures being recorded at nearly all stations between the 25th and 29th.

The precipitation was above the normal in the vicinity of Great Salt Lake, and in the extreme northeastern portion of the State, and was generally below thruout all other sections. At a few points in the southern half of the State, no precipitation occurred, and at a few others only a trace was recorded. Precipitation fell at only two stations previous to the 20th. Nearly the entire monthly amount was recorded during the storm which prevailed from the 22d to the 25th. The greater portion of this precipitation was in the form of snow, and attained a greater depth in the vicinity of Salt Lake City than ever before recorded. Some delay to railroad and street car traffic, and much damage to electric, telegraph and telephone lines was caused by the great depth and moist condition of the snow.

The sunshine was in excess of the average amount for the month. Cloudy weather prevailed from the 20th to the 25th, but clear skies were the rule during the remaining portions of the month.

Light winds prevailed, and no severe wind storms occurred in any locality.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 58 stations, was 36.0°, which was 1.5° below the normal.

The highest local monthly mean was 50.6° at Springdale, and the lowest was 25.0° at Scofield.

The highest temperature recorded was 78° at St. George on the 5th, and the lowest, -14° at Scofield on the 28th and 30th, giving a range for the section of 92°.

The greatest local monthly range was 77° at Thistle, and the least, 42° at Vernal.

PRECIPITATION.

The average precipitation, determined from the reports of 71 stations, was 0.62 inch, which was 0.30 inch below the normal for the State.

The greatest monthly amount was 2.34 inches at Tooele; no precipitation occurred at Frisco and Loa.

The greatest amount of precipitation in any 24 consecutive hours was 1.74 inches at Tooele, on the 24th.

There was an average of 2 days with 0.01 inch or more of precipitation; 3 over the northern, 2 over the middle, and 2 over the southern section.

WIND.

The prevailing direction for the section was northwest.

The total number of miles recorded at Salt Lake City was 2651; at Modena, 5818; at Grand Junction, Colo., 2741; and at Pocatello, Idaho, 5229.

The maximum velocity at Salt Lake City was 25 miles per hour from the northwest on the 22d; at Modena, 34 miles from the southwest on the 23d; at Grand Junction, Colo., 19 miles from the southeast on the 24th; and at Pocatello, Idaho, 36 miles from the southwest on the 22d.

CLOUDINESS.

The average number of clear days for the section during the month was 18; partly cloudy days, 6; cloudy days, 6.

According to the records of automatic sunshine recorders, Salt Lake City had 67 per cent; Modena 77 per cent; Grand Junction, Colo., 66 per cent; and Pocatello, Idaho, 63 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 64 per cent, the lowest observed reading being 33 per cent on the 10th; at Modena, 65 per cent, the lowest observed reading being 26 per cent on the 6th; at Grand Junction, Colo., 58 per cent, the lowest observed reading being 22 per cent on the 21st; and at Pocatello, Idaho, 63 per cent, the lowest observed reading being 25 per cent on the 19th.

MISCELLANEOUS PHENOMENA.

Aurora.—Hite, 5.
 Haze.—Salt Lake City, 15.
 Parhelia.—Meadowville, 24.
 Earthquake.—Sunnyside, 20.
 Smoke.—Ogden, No. 1, 5-8, 21.
 Hail.—Corinne, 22; Henefer, 22.
 Thunderstorms.—Mt. Nebo, 22; Park City, 22.
 Corona, lunar.—Marysville, 2, 12; Nephi, near, 9, 30.
 Halo, solar.—Henefer, 2, 11, 13; Modena, 12; Salt Lake City, 12, 13; Theodore, 13, 20.
 Fog.—Castle Rock, 27; Government Creek, 26, 27; Salt Lake City, 26, 28; Theodore, 29.
 Sleet.—Deseret, 24; Henefer, 22; Ibapah, 23; Levan, 23; Marysville, 22, 23; Meadowville, 24; Scofield, 16.
 High Winds.—Henefer, 10, 22; Modena, 22-24; Panguitch, 24; Ranch, 26-28; Salt Lake City, 22; Teasdale, 29.
 Halo, Lunar.—Henefer, 1, 3, 12; Hite, 5; Ibapah, 3; Marysville, 3; Modena, 2, 13; Morgan, 5, 6; Nephi, near, 2-4; Ogden, No. 2, 3; Salt Lake City, 3; Tropic, 2.

LATE REPORTS.

For October: Kanosh, total precipitation 3.50 inches; greatest precipitation in 24 hours, 2.00 inches; number rainy days, 6.

Richfield, mean temperature 47.2°; departure from the normal; -0.5°; highest, 87° on the 11th; lowest 10° on the 22d; greatest daily range, 61°; total precipitation 1.45 inches; departure from the normal, +0.98 inch; greatest in 24 hours, 1.00 inch; total snowfall, 4.5 inches; number of rainy days, 3; clear days, 19; partly cloudy days, 0; cloudy days, 11. Prevailing wind direction, southwest.

Scofield, mean temperature, 24.7; highest, 70° on the 3d; lowest, -9° on the 22d; greatest daily range, 44°; total precipitation, 2.95 inches; greatest in 24 hours, 0.84 inch; total snowfall, 9.0 inches; number rainy days, 6; clear days, 21; partly cloudy days, 2; cloudy days, 8.

WATER STAGES.

The level of Great Salt Lake on November 1st was 3.1 feet above zero; on November 15th, 3.2 feet above, and on December 1st, 3.2 feet above.

COMPARATIVE STATE DATA FOR NOVEMBER.

| Year. | Temperature. | | | Average
Precipitation. |
|-------|--------------|----------|---------|---------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 41.1 | 80 | 6 | 0.21 |
| 1892 | 36.7 | 76 | -6 | 0.30 |
| 1893 | 34.4 | 86 | -16 | 0.83 |
| 1894 | 40.0 | 82 | -9 | 0.55 |
| 1895 | 32.7 | 75 | -24 | 1.47 |
| 1896 | 33.4 | 78 | -20 | 1.23 |
| 1897 | 39.3 | 78 | 1 | 0.06 |
| 1898 | 35.7 | 82 | -8 | 0.06 |
| 1899 | 40.5 | 82 | 3 | 0.70 |
| 1900 | 40.1 | 80 | 1 | 1.51 |
| 1901 | 41.3 | 76 | 0 | 0.20 |
| 1902 | 36.0 | 81 | -13 | 1.78 |
| 1903 | 39.1 | 80 | -10 | 0.73 |
| 1904 | 39.4 | 83 | 0 | T |
| 1905 | 37.9 | 79 | 11 | 1.53 |
| 1906 | 36.1 | 90 | -18 | 1.81 |
| 1907 | 37.4 | 79 | -8 | 0.34 |
| 1908 | 36.0 | 78 | -14 | 0.62 |

ERRATA.

September, 1908, report. Page 69:—Springdale, greatest precipitation in 24 hours, recorded as 0.65 inch, should be 1.5 inches.

October, 1908, report. Pages 75 and 76:—Lowest temperature for the State during the month, recorded as -5° at Park City on the 24th, should be -9° at Scofield on the 22d.

OBSERVER'S REMARKS.

Deseret.—Very little precipitation occurred during the month.—S. W. Western.

Emery.—Very dry weather has been the rule. The first portion of the month was mild and pleasant; the latter portion was somewhat colder.—H. C. Wickman.

Government Creek.—Very pleasant weather predominated until the 23d; on this date occurred the heaviest snowstorm for the past twenty years.—Walter James.

Green River.—The weather of the month was calm and clear. There was no precipitation except a trace of rain.—J. H. Friedman.

Heber.—The snowfall was very light, except that which occurred on the 24th.—John Crook.

Henefer.—Both the precipitation and temperature were below normal.—Wm. Brewer.

Huntsville.—The first three weeks of the month were characterized by exceedingly fine weather. During the last week it was cold and stormy.—Lars Petersen.

Ibapah.—The weather of the month was pleasant except the storm period extending from the 20th to the 26th. At the end of the month there were about 20 inches of snow upon the mountains at the head of the water supply.—E. S. Gamwell.

Nephi, near.—An unusually large number of halos and coronas was observed during the month.—S. R. Boswell.

Ogden, No. 2.—The weather was prevailingly clear during the first three weeks. From the 22d to the 25th, inclusive, was a period of heavy precipitation. The rain with which the storm began changed to snow on the 24th.—W. H. Chevers.

Park City.—A thunderstorm took place on the 22d.—Prof. A. D. Griffin.

Pinto.—Very pleasant weather obtained during the first three weeks of November. The last week was characterized by low temperatures.—John H. Harrison.

Ranch.—Pleasant weather without precipitation was prevalent until the 23d. The remainder of the month was cold and windy.—J. W. Seaman.

St. George.—Very little precipitation occurred during the month. Some snow fell on the Pine Valley mountains north of St. George.—James G. Bleak.

Strawberry Valley.—Eighteen inches of snow fell during the month.—J. L. Lytel.

Sunnyside.—A slight earthquake took place on the night of the 20th at 11:50 p. m. All the precipitation that occurred during this month was in the form of snow.—H. Cullen.

Vernal, near.—Fair weather was general, and there was very little wind.—Joab Collier.

CLIMATOLOGICAL DATA, NOVEMBER, 1908.

| | | Temperature, in degrees Fahrenheit | | | | | | | | | | Precipitation, in inches. | | | | | Sky. | | | | | Observers. |
|----------------------|------------|------------------------------------|--------------------------|-------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|----------------------------|-------------------------|--------------------|----------------------------|---------------------|-------------------------------|----------------------------|--|------------|
| Stations. | Counties. | Elevation, feet. | Length of record, years. | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Days with snow or more. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,000 | 12 | | | | | | | | 0.25 | | 0.10 | 5.0 | 3 | 20 | 2 | 8 | | T. B. Whitby. | | |
| Castle Rock | Summit | | 4 | | | | | | | | | | | | | | | | | David Moore. | | |
| Corinne | Boxelder | 4,240 | 38 | 37.6 | -0.2 | 66 | *1 | 5 | 27 | 43 | 0.30 | -0.71 | 0.20 | 3.0 | 2 | 5 | 18 | 7 | nw. | Agent So. Pacific R. R. | | |
| Farmington | Davis | 4,267 | 8 | 36.8 | -0.2 | 60 | 1 | 5 | 27 | 31 | 1.86 | -0.40 | 1.14 | 18.0 | 3 | 23 | 3 | 4 | nw. | Charles Boylin. | | |
| Et. Duchesne | Uinta | 5,000 | 20 | 31.6 | -1.9 | 58 | 0 | 4 | 30 | 39 | 0.40 | -0.13 | 0.30 | | 2 | 20 | 0 | 1 | sw. | Post Surgeon. | | |
| Granville (near) | Tooele | | 2 | | | | | | | | 0.75 | | | | | | | | | A. J. Fraser. | | |
| Heber | Wasatch | 5,606 | 15 | 32.0 | -4.1 | 04 | 4 | 6 | *28 | 48 | 0.80 | -0.62 | 0.50 | 14.0 | 4 | 20 | 5 | 5 | s. | John Crook. | | |
| Henrieville | Summit | 5,304 | 9 | 32.8 | -2.5 | 06 | 6 | 7 | 28 | 53 | 0.60 | -0.99 | 0.55 | 7.2 | 3 | 22 | 1 | 7 | nw. | William Brewer. | | |
| Huntsville | Weber | 5,100 | 13 | | | | | | | | 0.78 | -0.55 | | 7.0 | 4 | 17 | 8 | 5 | nw. | Lars Petersen. | | |
| Keeton | Boxelder | 4,230 | 30 | 32.0 | +0.2 | 50 | | 29 | 33 | 0.10 | 1.27 | -0.22 | 0.10 | 1.0 | 1 | 14 | 11 | 5 | sw. | Agent So. Pacific R. R. | | |
| Logan | Cache | 4,507 | 17 | 34.2 | -3.9 | 58 | *2 | 2 | 29 | 26 | 1.37 | -0.18 | | | 4 | | | | | Agricultural College. | | |
| Lodi | Boxelder | | 3 | 35.9 | | 02 | 8 | 3 | 29 | 45 | 0.05 | | 0.05 | 0.5 | 1 | | | | | C. J. Burke. | | |
| Marion | Summit | | 3 | | | | | | | | | | | | | | | | | J. Woolstenhulme. | | |
| Meadowville | Rich | 6,200 | 9 | 30.2 | -4.2 | 55 | 18 | 8 | 45 | 36 | 0.50 | -0.94 | 0.40 | 7.0 | 2 | 15 | 2 | 13 | w. | J. S. Moffat. | | |
| Millville | Cache | 4,848 | 13 | | | | | | | | 0.89 | -0.78 | 0.51 | | 3 | | | | | Fred Yates. | | |
| Morgan | Morgan | 5,080 | 5 | 34.2 | | 66 | 7 | 6 | 29 | 50 | 1.03 | | 0.80 | 9.5 | 4 | 17 | 9 | 4 | nw. | W. Visick. | | |
| Odgen No. 1 | Weber | 4,310 | 7 | 38.0 | -2.3 | 58 | *1 | 10 | 28 | 27 | 2.05 | -1.04 | 1.00 | 6.0 | 4 | 14 | 6 | 10 | nw. | Enoch Farr. | | |
| Odgen No. 2 | Weber | 4,310 | 38 | 39.6 | +0.3 | | | | | | 1.27 | +0.11 | 0.60 | 8.0 | 4 | 10 | 7 | 4 | w. | W. H. Chevers. | | |
| Park City | Summit | 7,800 | 11 | 35.4 | -0.1 | 55 | 5 | 11 | *26 | 20 | 0.62 | -1.48 | 0.32 | 6.2 | 5 | 15 | 7 | 8 | | Prof. A. D. Griffin. | | |
| Promontory | Boxelder | | | | | | | | | | 0.40 | | 0.20 | 4.0 | 2 | | | | | F. C. Houghton. | | |
| Randolph | Rich | | 3 | | | | | | | | 1.80 | | | | | | | | | Wm. Rex. | | |
| Salt Lake City | Salt Lake | 4,366 | 34 | 39.8 | -0.6 | 63 | 2 | 10 | 28 | 22 | 1.53 | | 0.80 | 10.0 | 4 | | | | | E. J. Bench. | | |
| Salt Lake | Salt Lake | | 1 | | | | | | | | 1.91 | -0.40 | 1.30 | 20.7 | 5 | 13 | 12 | 5 | se. | Section Center. | | |
| Snowville | Boxelder | 4,360 | 18 | 32.8 | -4.2 | 03 | *3 | 0 | 29 | 48 | 0.40 | -0.52 | 0.30 | | 2 | 13 | 12 | 5 | n. | N. J. Ferber. | | |
| Strawberry Valley | Wasatch | | 2 | 28.4 | | 58 | 4 | 0 | 29 | 42 | 1.80 | | | 18.0 | 4 | 26 | 0 | 4 | | Joseph Robbins. | | |
| Theodore | Wasatch | 5,507 | 2 | 29.1 | | 55 | *1 | 3 | 20 | 42 | 0.25 | | 0.25 | 2.5 | 1 | 12 | 14 | 4 | w. | U. S. Reclamation Service. | | |
| Tooele | Tooele | 4,900 | 12 | 38.2 | -2.0 | 62 | 1 | 9 | *28 | 32 | 2.34 | +0.83 | 1.74 | 22.0 | 2 | 14 | 7 | 9 | nw. | M. M. Smith. | | |
| Verona (near) | Uinta | | 13 | 30.4 | -4.6 | 49 | *2 | 7 | 29 | 26 | 0.55 | -0.13 | 0.55 | 5.5 | 1 | 22 | 0 | 8 | | E. A. Bonelli. | | |
| Woodruff | Rich | 6,500 | 11 | | | | | | | | 0.92 | -0.17 | | 8.8 | 3 | 17 | 7 | 6 | nw. | Joab Collier. | | |
| Averages | | | | | | | | | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | |
| Amabella (near) S. | Sevier | | 2 | 35.8 | | 68 | 17 | 5 | *29 | 44 | 0.05 | | 0.05 | 1.0 | 1 | 14 | 10 | 6 | | J. W. Fairbanks. | | |
| Black Rock | Millard | 4,872 | 8 | | | | | | | | 0.60 | +0.15 | 0.60 | 6.0 | 1 | 20 | 8 | 2 | s. | A. H. Cassell. | | |
| Castle Dale | Emery | 5,500 | 9 | 35.3 | -1.9 | 66 | 9 | 5 | 29 | 47 | 0.55 | -0.30 | 0.55 | | 1 | 26 | 3 | 0 | | James Jeffs. | | |
| Deseret | Millard | 4,544 | 14 | 36.4 | -1.0 | 65 | *2 | 9 | 20 | 48 | 0.25 | -0.15 | 0.25 | 3.0 | 1 | 20 | 4 | 6 | n. | S. W. Western. | | |
| Dragon | Uinta | | 8 | 32.2 | | 59 | 9 | 2 | 20 | 52 | 1.50 | | 1.00 | 15.0 | 3 | 11 | 0 | 6 | s. | H. J. Cooper. | | |
| Emery | Emery | 6,260 | 8 | 35.9 | -2.1 | 67 | 16 | 10 | 22 | 51 | 0.40 | -0.25 | 0.40 | 4.0 | 1 | 7 | 12 | 11 | e. | H. C. Wickman. | | |
| Fillmore | Millard | 5,100 | 18 | 43.1 | -1.5 | 74 | *1 | 11 | 20 | 47 | 0.69 | -0.15 | 0.69 | | 1 | | | | | J. J. Starley. | | |
| Garrison | Millard | | 5 | | | | | | | | 0.33 | | 0.25 | | 2 | 14 | 0 | 4 | s. | E. M. Smith. | | |
| Government Creek | Tooele | 5,277 | 8 | 36.1 | -3.4 | 60 | *2 | 3 | 28 | 31 | 1.40 | +0.37 | 1.00 | 14.0 | 2 | 20 | 1 | 9 | s. | Walter James. | | |
| Green River | Emery | 4,080 | 11 | 37.4 | -3.1 | 60 | 1 | 14 | 29 | 39 | T. | -0.67 | T. | 0.0 | 0 | 15 | 1 | 0 | | J. H. Fritz. | | |
| Juniper (near) | Tooele | 7,500 | 2 | 33.8 | | 68 | 1 | 2 | 29 | 64 | 0.19 | | 0.11 | 3.0 | 2 | 21 | 4 | 5 | nw. | E. S. Gamwell. | | |
| Juniper | Millard | | 1 | | | | | | | | 0.71 | | 0.71 | | 1 | | | | | Geo. Crane. | | |
| Juniper | Juniper | 5,010 | 18 | 35.6 | -1.3 | 61 | 4 | 6 | 29 | 41 | 0.63 | -0.30 | | | 3 | 20 | 4 | 6 | sw. | William Brown. | | |
| Juniper | Sanpete | 5,575 | 14 | 33.4 | -4.6 | 57 | 4 | 7 | 29 | 35 | 0.50 | -0.36 | 0.50 | 5.3 | 3 | 20 | 4 | 6 | sw. | J. M. Anderson. | | |
| Juniper | Sanpete | | 7 | 36.2 | | 68 | 2 | 10 | 29 | 42 | 0.26 | | 0.16 | 6.0 | 3 | 11 | 17 | 2 | sw. | B. F. Eliason. | | |
| Juniper | Sanpete | 4,650 | 16 | 38.4 | -1.0 | 65 | *1 | 9 | *28 | 41 | 0.33 | -0.10 | 0.17 | 0.5 | 5 | 22 | 5 | 3 | n. | D. C. Walker. | | |
| Juniper | Juniper | 5,859 | 3 | | | | | | | | 0.66 | -0.62 | 0.20 | | 1 | 26 | 1 | 3 | sw. | Miss Jane Martin. | | |
| Juniper | Millard | | 3 | | | | | | | | | | 0.45 | 5.5 | 3 | 24 | 3 | 3 | sw. | A. Madsen. | | |
| Juniper | Utah | 4,637 | 3 | | | | | | | | 0.88 | | 0.74 | 8.0 | 3 | 14 | 10 | 6 | sw. | J. Finlinson. | | |
| Juniper | Utah | 4,532 | 16 | 39.0 | -0.2 | 66 | 2 | 2 | 28 | 44 | 1.20 | -0.25 | 0.60 | 12.0 | 3 | 11 | 17 | 2 | | D. L. Coombs. | | |
| Juniper | Sevier | 5,350 | 18 | 39.2 | -1.2 | 68 | 6 | 8 | 30 | 52 | T. | -0.32 | T. | | 0 | 27 | 0 | 3 | | James A. Oliver. | | |
| Juniper | Millard | 5,260 | 13 | 36.9 | -0.4 | 73 | *4 | 0 | 29 | 66 | 0.46 | -0.75 | 0.34 | 1.0 | 3 | 11 | 9 | 10 | sw. | J. J. Jensen. | | |
| Juniper | Carbon | | 16 | 25.0 | | 59 | 17 | -14 | *28 | 56 | 1.02 | | 0.53 | 20.0 | 3 | 25 | 0 | 5 | | Thomas Memmott. | | |
| Juniper | Utah | 7,474 | 16 | | | | | | | | | | | | | | | | | O. E. Jorgensen. | | |
| Juniper | Carbon | | 3 | | | | | | | | 1.25 | | 1.20 | 12.5 | 2 | | | | | Agent Rio Grande R. R. | | |
| Juniper | Utah | 5,075 | 10 | 38.1 | -1.4 | 75 | *2 | 2 | 27 | 51 | 0.70 | -0.39 | 0.40 | 7.0 | 3 | 27 | 0 | 3 | | Henry Cullum. | | |
| Juniper | Juniper | | 3 | | | | | | | | | | | | | | | | | Agt. Rio Grande W. R. R. | | |
| Juniper | Utah | | 3 | | | | | | | | | | | | | | | | | Frank Parker. | | |
| Juniper | Carbon | 5,540 | 9 | 28.1 | -8.6 | 58 | 4 | 4 | 29 | 50 | 0.40 | -0.09 | 0.40 | 4.0 | 1 | | | | | W. A. Knight. | | |
| Averages | | | | 35.6 | -0.8 | | | | | | 0.58 | -0.35 | | 6.4 | 2 | 19 | 5 | 6 | sw. | Melville Branch. | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | |
| Amabella | San Juan | 4,800 | 8 | | | | | | | | | | 0.45 | 6.5 | 2 | 18 | 6 | 6 | nw. | Miss S. Hubert. | | |
| Beaver | Beaver | | 3 | 37.7 | | 67 | *3 | 2 | *26 | 49 | 0.65 | | 0.32 | 3.0 | 1 | 8 | 10 | 3 | | James Connell. | | |
| Castle City | Iron | 4,425 | 7 | | | 67 | 4 | 11 | 29 | 36 | 0.32 | | | | | | | | | J. M. Foster. | | |
| Dayton | Garfield | | 7 | | | | | | | | | | 0.30 | 3.0 | 2 | 17 | 11 | 2 | | Mrs. E. Clayton. | | |
| Enterprise (near) S. | Washington | | 2 | | | | | | | | 0.30 | | 0.30 | 3.0 | 2 | 17 | 11 | 2 | | John Day. | | |
| Enterprise | Garfield | 5,700 | 8 | 38.4 | -1.4 | 67 | 7 | 13 | *17 | 42 | 0.17 | -0.21 | 0.17 | | 1 | 19 | 0 | 11 | | Geo. H. Barney. | | |
| Experiment Farm | Washington | | 4 | | | | | | | | | | 0.00 | 0.0 | 0 | | | | | Joseph T. Atkins. | | |
| Fisco | Beaver | 7,318 | 14 | 38.0 | -2.9 | 61 | 4 | 8 | 29 | 32 | 0.00 | -0.48 | 0.00 | 0.0 | 0 | | | | | E. R. Smyth. | | |
| Hayden | San Juan | | 3 | 38.6 | | 62 | *3 | 12 | 30 | 42 | 1.15 | | 0.75 | 15.0 | 3 | 23 | 0 | 7 | s. | Joseph A. Lyman. | | |
| Hayden | Garfield | 3,000 | 9 | 45.4 | -2.2 | 71 | 7 | 23 | 30 | 37 | 0.18 | -1.10 | 0.12 | | 2 | 21 | 4 | 5 | | J. P. Hite. | | |
| Hayden | Kane | 4,925 | 8 | | | | | | | | | | | | | | | | | W. J. F. McAllister. | | |
| Hayden | San Juan | 7,000 | 8 | 35.5 | -3.3 | 60 | *4 | 10 | 30 | 34 | | | 0.00 | 0.0 | 0 | | | | | Mrs. G. W. Carpenter. | | |
| Hayden | Wayne | 7,000 | 16 | 27.4 | -4.4 | 56 | 6 | 8 | 29 | 45 | 0.00 | -0.39 | 0.00 | 0.0 | 0 | | | | | Michael Hansen. | | |
| Hayden | Piute | 6,180 | 9 | 34.2 | -4.1 | 66 | 3 | 1 | 29 | 50</ | | | | | | | | | | | | |

MAXIMUM AND MINIMUM TEMPERATURES, NOVEMBER, 1908.

[illegible]

SOUTHERN.

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City

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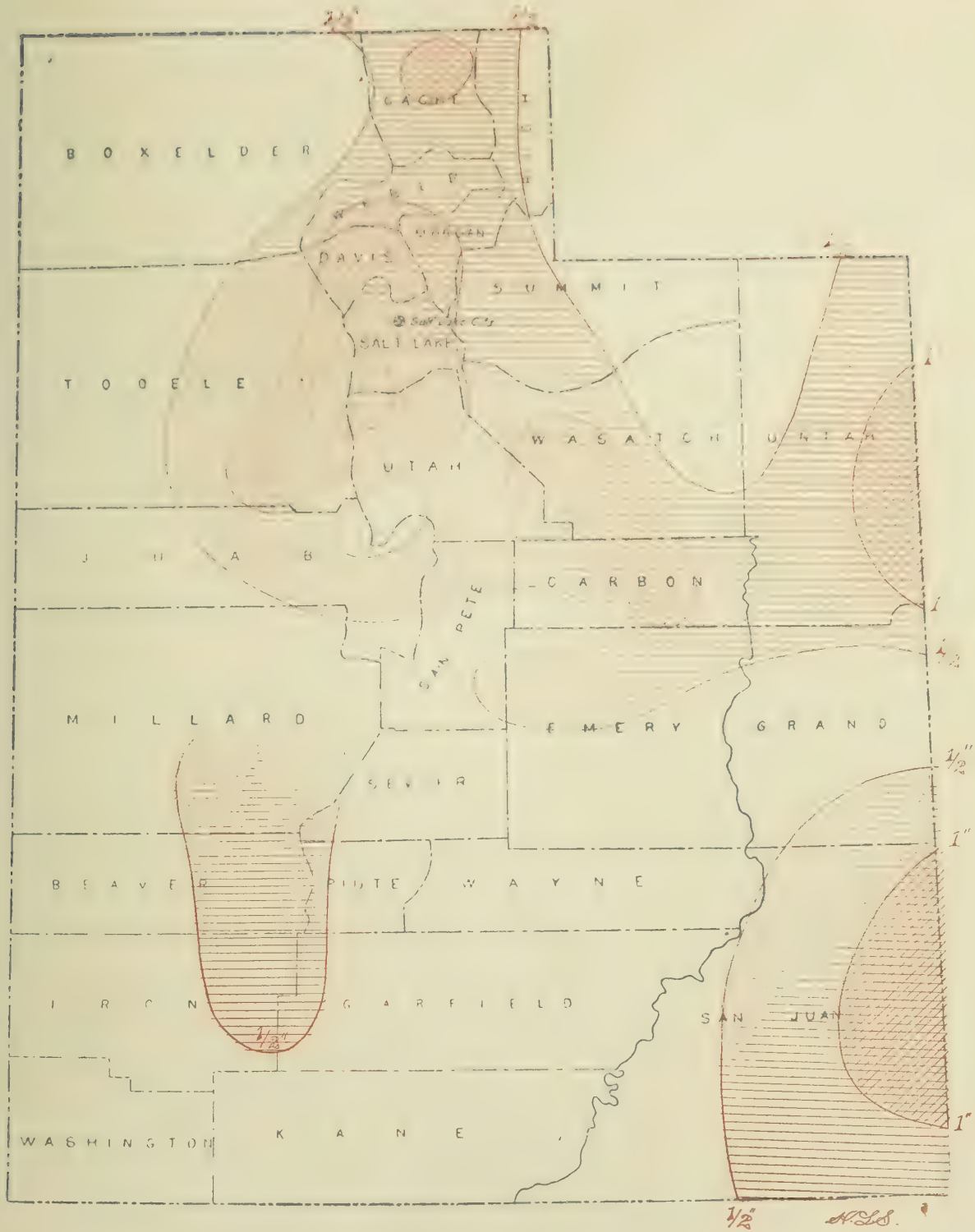
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TOTAL PRECIPITATION NOVEMBER, 1908



SCALE OF SHADES IN INCHES



Stations.

Day of month.

| NORTHERN. | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|
| Alpine | | | | | | | | | |
| Castle Rock | | | | | | | | | |
| Corinne | | | | | | | | | |
| Farmington | | | | | | | | | |
| Ft. Duchesne | | | | | | | | | |
| Granitsville (near) | | | | | | | | | |
| Heber | | | | | | | | | |
| Henefer | | | | | | | | | |
| Huntsville | | | | | | | | | |
| Kelton | | | | | | | | | |
| Logan | | | | | | | | | |
| Lucin | | | | | | | | | |
| Marion | | | | | | | | | |
| Meadowville | | | | | | | | | |
| Millville | | | | | | | | | |
| Morgan | | | | | | | | | |
| Ogden No. 1 | | | | | | | | | |
| Ogden No. 2 | | | | | | | | | |
| Park City | | | | | | | | | |
| Promontory | | | | | | | | | |
| Randolph | | | | | | | | | |
| Salt Lake Beach | | | | | | | | | |
| Salt Lake City | | | | | | | | | |
| Silver Lake | | | | | | | | | |
| Snowville | | | | | | | | | |
| Strawberry Valley | | | | | | | | | |
| Theodore | | | | | | | | | |
| Tooele | | | | | | | | | |
| Vernal (near) | | | | | | | | | |
| Woodruff | | | | | | | | | |
| MIDDLE. | | | | | | | | | |
| Annabella (near) | | | | | | | | | |
| Black Rock | | | | | | | | | |
| Castle Dale | | | | | | | | | |
| Deseret | | | | | | | | | |
| Dragon | | | | | | | | | |
| Emery | | | | | | | | | |
| Fillmore | | | | | | | | | |
| Garrison | | | | | | | | | |
| Government Creek | | | | | | | | | |
| Green River | | | | | | | | | |
| Hatch (near) | | | | | | | | | |
| Kanosh | | | | | | | | | |
| Levan | | | | | | | | | |
| Manti | | | | | | | | | |
| Moroni | | | | | | | | | |
| Mount Nebo | | | | | | | | | |
| Mount Pleasant | | | | | | | | | |
| Nephi | | | | | | | | | |
| Nephi (near) | | | | | | | | | |
| Oak City | | | | | | | | | |
| Payson | | | | | | | | | |
| Provo | | | | | | | | | |
| Richfield | | | | | | | | | |
| Scipio | | | | | | | | | |
| Scotfield | | | | | | | | | |
| Soldier Summit | | | | | | | | | |
| Sunnyside | | | | | | | | | |
| Thistle | | | | | | | | | |
| Trout Creek | | | | | | | | | |
| Utah Lake Pumping Station | | | | | | | | | |
| Wellington | | | | | | | | | |
| SOUTHERN. | | | | | | | | | |
| Aneth | | | | | | | | | |
| Beaver | | | | | | | | | |
| Cedar City | | | | | | | | | |
| Coyote | | | | | | | | | |
| Enterprise (near) | | | | | | | | | |
| Escalante | | | | | | | | | |
| Experiment Farm | | | | | | | | | |
| Frisco | | | | | | | | | |
| Grayson | | | | | | | | | |
| Hite | | | | | | | | | |
| Kanab | | | | | | | | | |
| La Sal | | | | | | | | | |
| Lea | | | | | | | | | |
| Marysville (near) | | | | | | | | | |
| Milford | | | | | | | | | |
| Minersville | | | | | | | | | |
| Moab | | | | | | | | | |
| Modena | | | | | | | | | |
| Panguitch | | | | | | | | | |
| Parowan | | | | | | | | | |
| Pinto | | | | | | | | | |
| Ranch | | | | | | | | | |

T indicates a trace of precipitation.
 † Total complete; daily values not used.

* Precipitation included in that of following day.

† Precipitation incomplete.

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR DECEMBER, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

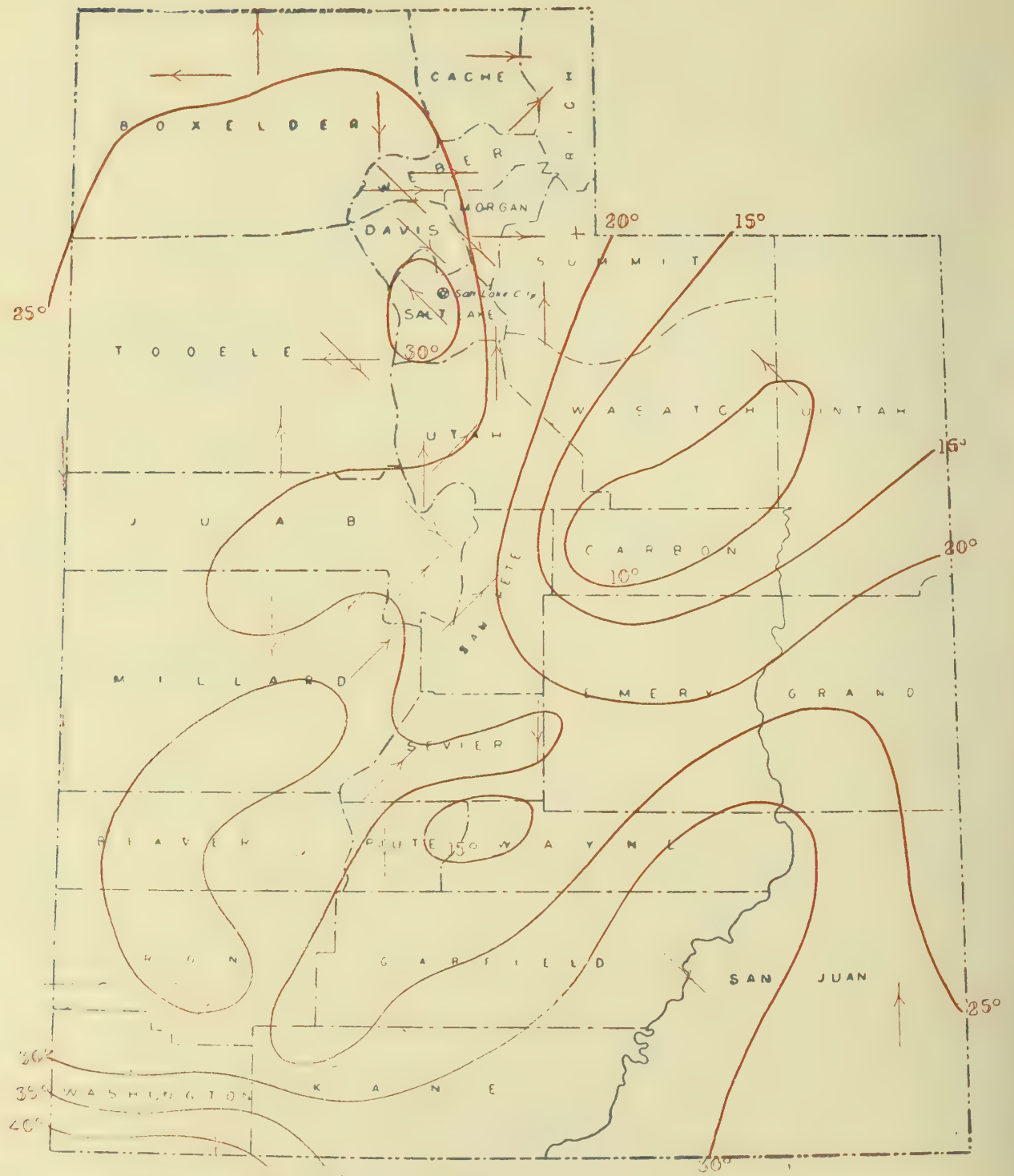
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

JANUARY 12, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, DECEMBER, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE CITY, UTAH, DECEMBER, 1908. No. 12

GENERAL SUMMARY.

The mean temperature and average precipitation for the State were below the normal. The month was colder than any December during the past 10 years, except that of 1905, and was more than 5° colder than that of last year. The precipitation was less than that of this month in 1906 or 1907, but greater than all other years since 1897.

The temperature was below the normal except at a few points in the central and southern counties. In Uinta, Carbon and eastern Wasatch counties, the cold was unusually severe, being from 10° to 15° below the normal. Minimum temperatures of 17° to 29° below zero were reported from all stations in that district. The first half of the month was comparatively warm, as also were the last four days. The extreme cold weather began on the 18th, and continued until the 26th, during which time zero weather was experienced over the State, except at a few points near Great Salt Lake, and in the southern valleys.

The precipitation was in excess of the normal over the eastern and southern portions, and generally below the normal over the remainder of the State. The amount was least in the northwestern part, and gradually increased eastward and southward over the State. The fall was light during the first half of the month, being mostly in the form of rain, which fell between the 2d and 6th. A general storm crossed the State between the 14th and 18th, giving a moderately heavy fall of snow over all sections. No precipitation occurred during the remainder of the month, except light snow over portions of the northern and middle sections on the 23d and 24th.

Wind velocities were generally light, and the amount of sunshine was nearly normal for the month.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 25.4°, which was 1.7° below the normal.

The highest local monthly mean was 40.3° at Springdale, and the lowest was 9.7° at Scofield.

The highest temperature recorded was 66° at Milford on

the 11th, and the lowest, -29° at Theodore on the 20th and at Wellington on the 19th, giving a range for the section of 95°.

The greatest local monthly range was 89° at Milford, and the least, 35° at Hite.

PRECIPITATION.

The average precipitation, determined from the reports of 67 stations, was 0.97 inch, which was 0.16 inch below the normal for the State.

The greatest monthly amount was 6.20 inches at Grayson; and the least monthly amount was a trace at Lucin and Ibapah.

The greatest amount of precipitation in any 24 consecutive hours was 2.80 inches at Grayson, on the 16th.

There was an average of 4 days with 0.01 inch or more of precipitation; 4 over the northern, 3 over the middle, and 4 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 2566; at Modena, 5507; at Grand Junction, Colo., 2260; and at Pocatello, Idaho, 6207.

The maximum velocity at Salt Lake City was 38 miles per hour from the northwest on the 24th; at Modena, 34 miles from the southwest on the 9th; at Grand Junction, Colo., 18 miles from the west on the 17th; and at Pocatello, Idaho, 38 miles from the southwest on the 24th.

CLOUDINESS.

The average number of clear days for the section during the month was 15; partly cloudy days, 8; cloudy days, 8.

According to the records of automatic sunshine recorders, Salt Lake City had 46 per cent; Modena 62 per cent; Grand Junction, Colo., 53 per cent; and Pocatello, Idaho, 36 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 74 per cent, the lowest observed reading being 30 per cent on the 13th; at Modena, 75 per cent, the lowest observed reading being 36 per cent on the 13th; at Grand Junction, Colo., 79 per cent, the lowest observed reading being 46 per cent on the 14th; and at Pocatello, Idaho, 78 per cent, the lowest observed reading being 44 per cent on the 25th and 30th.

MISCELLANEOUS PHENOMENA.

Sleet.—Pinto, 5.

Hail.—Levan, 16; Pinto, 5, 6.

Parhelia.—Meadowville, 18, 19.

Halo, solar.—Beaver, 21; Ogden No. 2, 17; Marysvale, 1; Modena, 21.

Corona, lunar.—Government Creek, 2, 29; Marysvale, 2, 5, 9; Tropic, 2.

Halo, lunar.—Government Creek, 1, 31; Henefer, 1; Levan, 1; Marysvale, 1; Modena, 1, 2; Salt Lake City, 12; Tropic, 31.

High Winds.—Garrison, 13, 14, 22; Heber, 4, 10, 11, 28; Henefer, 24; La Sal, 24; Marion, 24; Meadowville, 24, 28, 29; Modena, 9, 11; Promontory, 23; Salt Lake City, 24; Theodore, 24.

Fog.—Castle Rock, 6, 17; Deseret, 28-30; Ft. Duchesne, 7, 9, 22, 23, 31; Grayson, 3-5; Henefer, 29, 30; Hite, 4, 15; Levan, 5; Nephi, 5; Ogden No. 1, 23, 27, 28, 31; Ogden No. 2, 11; Pinto, 18; Randolph, 7-9, 23, 24; Salt Lake City, 12, 20, 21; Sunnyside, 16; Theodore, 6, 7; Tropic, 4, 5; Vernal, 6.

LATE REPORTS.

For November: Randolph, total precipitation 0.50 inch; greatest precipitation in 24 hours, 0.30 inch; total snowfall, 7.0 inches; number rainy days, 2; clear days, 23; partly cloudy days, 1; cloudy days, 6.

Oak City, report for 25 days: Mean temperature 38.6°; highest, 68° on the 9th; lowest 8° on the 26th; greatest daily range, 46°; total precipitation 0.52 inch; greatest in 24 hours, 0.52 inch; number of rainy days, 1; clear days, 18; partly cloudy days, 5; cloudy days, 2.

Coyoto, report for 28 days: Mean temperature, 34.0°; highest, 66° on the 3d and 4th; lowest, 1° on the 28th; greatest daily range, 53°; total precipitation, 0.10 inch; greatest in 24 hours, 0.10 inch; total snowfall, 1.0 inch; number rainy days, 1; clear days, 18; partly cloudy days, 0; cloudy days, 10.

Experiment Farm, mean temperature, 43.6°; highest, 75° on the 4th and 6th; lowest, 14° on the 29th; greatest daily range, 49°; number clear days, 14; partly cloudy days, 8; cloudy days, 8.

WATER STAGES.

The level of Great Salt Lake on December 1st was 3.2 feet above zero; on December 15th, 3.3 feet above, and on January 1st, 3.4 feet above.

COMPARATIVE STATE DATA FOR DECEMBER.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1891 | 26.0 | 71 | -19 | 1.42 |
| 1892 | 25.0 | 66 | -19 | 1.27 |
| 1893 | 31.1 | 70 | -19 | 1.30 |
| 1894 | 20.3 | 64 | -17 | 1.94 |
| 1895 | 21.0 | 64 | -24 | 0.78 |
| 1896 | 31.0 | 66 | -3 | 0.46 |
| 1897 | 22.7 | 68 | -19 | 1.16 |
| 1898 | 23.1 | 72 | -17 | 0.63 |
| 1899 | 25.2 | 74 | -26 | 0.95 |
| 1900 | 30.6 | 68 | -27 | 0.14 |
| 1901 | 29.9 | 71 | -18 | 0.81 |
| 1902 | 27.0 | 66 | -25 | 0.89 |
| 1903 | 26.4 | 70 | -26 | 0.37 |
| 1904 | 28.8 | 81 | -25 | 0.74 |
| 1905 | 22.8 | 63 | -32 | 0.62 |
| 1906 | 33.3 | 70 | -12 | 1.63 |
| 1907 | 30.6 | 68 | -22 | 1.58 |
| 1908 | 25.4 | 66 | -29 | 0.97 |

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE DECEMBER, 1908.

In general the snowfall for the month of December was slightly below the normal over the Great Salt Lake watershed and the region drained by the Green and Colorado rivers, and was somewhat excessive over the Sevier Lake Basin. At the close of the month the depth of snow in the mountain district averaged from four to seven feet. As a rule, the snow in the mountains was well drifted and packed, and in consequence the prospect of a plentiful supply of water for the coming season is favorable.

GREAT SALT LAKE WATERSHED.

Kelton, the snow is not drifted, but is well packed, on account of alternate thawing and freezing conditions. Promontory, the snow is not drifted. West Portage, the snow is somewhat drifted but not well packed. Millville, the snow is drifted somewhat, and is solid. The prospect for water is fair. Newton, what little snow remains is wet and solid. Cache Junction, the snow is packed somewhat. Hyrum, as dry cold weather has obtained, the snow is rather incompact. Lake town, the snow is well drifted but loose. Layton, altho not drifted, the snow is well packed. Park City, the snow is loose. Hunter, the winds having been light, the snow is not well drifted. Government Creek, the snow is loose, but undrifted. Soldier Summit, the snow is well packed and drifted. Theodore, the snow is not well packed. Farmington, the snow in the hills is well drifted and is solid. Springville, the snow is well packed and drifted.

SEVIER LAKE WATERSHED.

Levan, the snow is well drifted and packed. A good supply of irrigation water is assured. Manti, the snow is drifted somewhat and well packed. Sunnyside, altho not packed well, the snow is drifted. Deseret, the snow is well packed. Scipio, an accumulation of solid, well-packed snow lies on the ground. Kanosh, the fall of snow that occurred in October is quite solid. Annabella, the well packed snow lies in drifts. Milford, the snow is not well drifted. Frisco, the snow is compact. Marysvale, the snow is much drifted and well packed. Pinto, the snow is neither drifted nor packed. Modena, the snow is evenly distributed, but is disappearing rapidly. Moroni, the snow is well packed owing to thawing conditions. It is not drifted to any extent.

GREEN AND COLORADO RIVERS WATERSHED.

Lawrence, the snow is well packed. Green River, the weather having been cold, the snow is probably loose. Ferron, what little snow remains is well drifted, and the prospects for an adequate supply of water is favorable. Castle Dale, the snow is solid. Emery, the snow is solid, well packed and well drifted. Tropic, an accumulation of well-packed snow lies on the ground. Loa, the snow is well drifted. Ranch, the snow is quite light and undrifted.

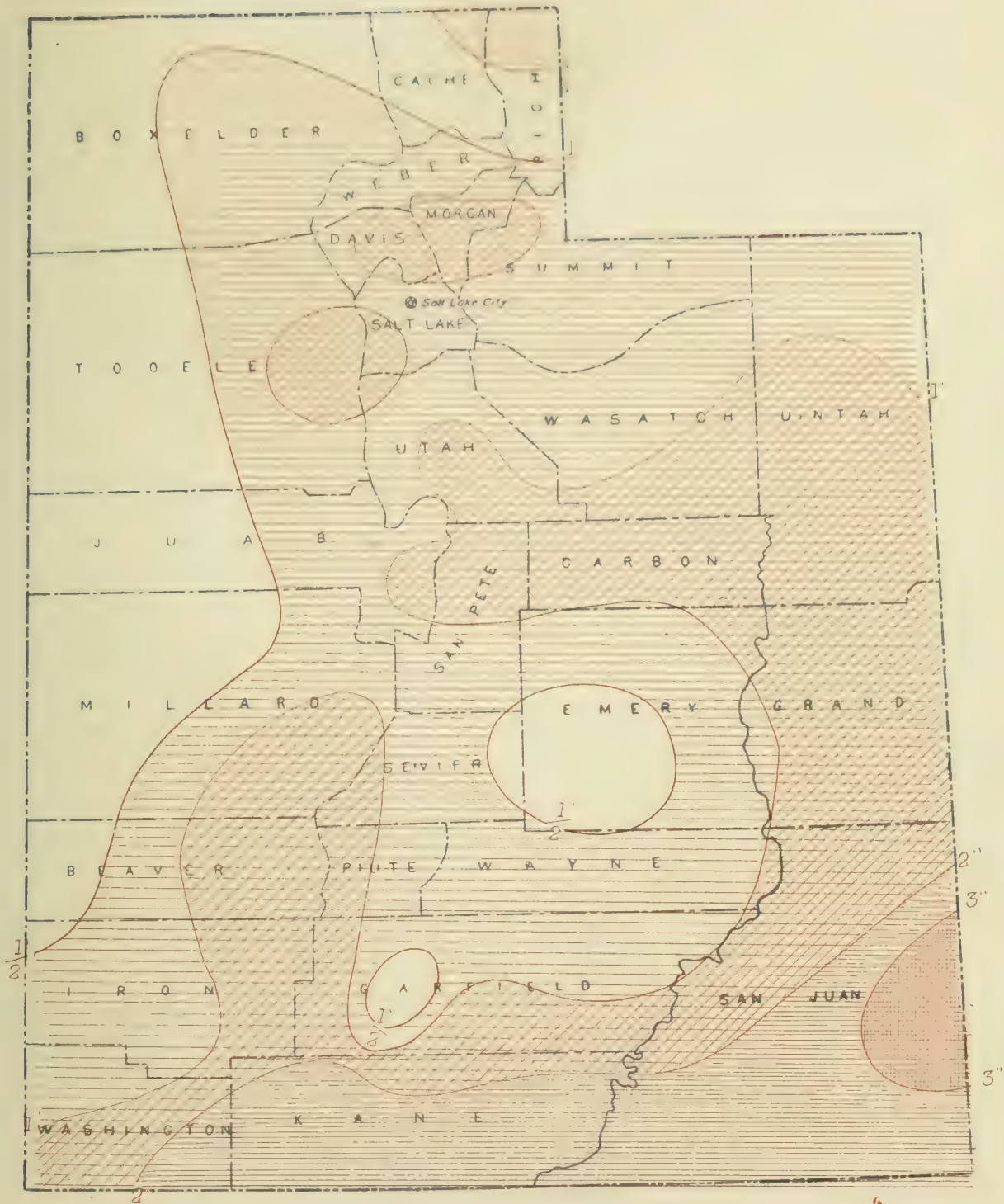
CLIMATOLOGICAL DATA, DECEMBER, 1908.

| Stations | Counties | Elevation, feet | Length of record, years | Temperature, in degrees Fahrenheit | | | | | | | Precipitation, in inches | | | | Sky | | | | Prevailing direction of wind | Observers |
|------------------------|------------|-----------------|-------------------------|------------------------------------|---------------------------|---------|------|--------|------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------|---------------------------|--------------------|------------------------------|----------------------------|
| | | | | Mean | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall, in inches | Days with 1 inch or more | Number clear days | Number partly cloudy days | Number cloudy days | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,000 | 12 | | | | | | | | 0.37 | | 0.20 | 7.5 | 4 | 13 | 13 | 5 | sw. | T. B. Whitby. |
| Castle Rock | Summit | | | | | | | | | | 0.50 | 0.99 | 0.40 | 5.0 | 2 | 8 | 12 | 11 | n. | David Moore. |
| Crmine | Boxelder | 4,240 | 38 | 27.8 | 1.0 | 49 | 10 | -1 | *20 | 38 | 0.50 | 0.99 | 0.40 | 5.0 | 2 | 8 | 12 | 11 | n. | Agent So. Pacific R. R. |
| Drumming | Davis | 4,267 | 8 | 28.2 | -2.2 | 46 | 12 | -1 | 20 | 25 | 1.15 | -0.36 | 0.43 | 11.5 | 4 | 18 | 5 | 8 | nw. | Charles Boylin. |
| Duchesne | Uinta | 5,000 | 20 | 9.8 | 9.5 | 38 | 13 | -25 | 21 | 30 | 1.40 | -0.90 | 0.60 | | 3 | 19 | 0 | 12 | sw. | Post Surgeon. |
| Edwardsville (near) | Tooele | | | | | | | | | | | | | | | | | | | A. J. Fraser. |
| Elber | Wasatch | 5,606 | 15 | 21.6 | -0.6 | 44 | *9 | -16 | 19 | 40 | 0.90 | 0.62 | 0.60 | 14.0 | 5 | 16 | 5 | 10 | s. | John Crook. |
| Emery | Summit | 5,301 | 9 | 24.0 | 1.9 | 52 | 9 | -18 | *18 | 49 | 1.00 | -0.28 | 0.55 | 10.0 | 7 | 11 | 11 | 9 | w. | William Brewer. |
| Edwardsville | Weber | 5,100 | 13 | | | | | | | | 0.79 | -0.81 | 0.29 | 10.0 | 6 | 11 | 12 | 8 | w. | Lars Petersen. |
| Edwardsville | Boxelder | 4,230 | 30 | 21.6 | -6.2 | 44 | 4 | -5 | *18 | 34 | 0.50 | 0.19 | 0.30 | 5.0 | 3 | 9 | 21 | 1 | e. | Agent So. Pacific R. R. |
| Edwardsville | Cache | 4,807 | 17 | 23.8 | -1.5 | 42 | 13 | -6 | 20 | 19 | 0.13 | -0.85 | 0.13 | 3.0 | 1 | | | | | Agricultural College. |
| Edwardsville | Boxelder | | 3 | 25.2 | | 47 | 6 | -6 | *20 | 37 | T. | | T. | | | | | | | C. J. Burke. |
| Edwardsville | Summit | | 3 | | | | | | | | 0.92 | | 0.55 | 7.5 | 3 | 6 | 7 | 8 | s. | J. Woolstenhulme. |
| Edwardsville | Rich | 6,200 | 9 | 23.0 | -1.2 | 42 | 28 | -5 | 19 | 37 | 0.80 | 0.11 | 0.30 | 11.0 | 5 | 11 | 1 | 19 | w. | J. S. Moffat. |
| Edwardsville | Cache | 4,848 | 13 | | | | | | | | 0.42 | -0.59 | 0.12 | | 7 | | | | | Fred Yeates. |
| Edwardsville | Morgan | 5,080 | 5 | 24.0 | | 50 | *14 | 17 | 21 | 41 | 1.20 | | 0.80 | 12.0 | 3 | 12 | 13 | 6 | nw. | W. Visick. |
| Edwardsville | Weber | 4,310 | 7 | 28.0 | -0.1 | 58 | 10 | 5 | *19 | 30 | 0.97 | -0.46 | 0.50 | 9.0 | 4 | 15 | 3 | 13 | nw. | Enoch Farr. |
| Edwardsville | Weber | 4,310 | 38 | 31.8 | +0.4 | | | | | | 0.39 | -1.23 | 0.23 | 7.0 | 4 | 7 | 10 | 14 | w. | W. H. Chevers. |
| Edwardsville | Summit | 7,800 | 11 | | | | | | | | | | | | | | | | | Prof. A. D. Griffin. |
| Edwardsville | Boxelder | | | | | | | | | | 0.60 | | 0.40 | 6.0 | 2 | | | | | F. C. Houghton. |
| Edwardsville | Rich | | 3 | | | | | | | | 0.40 | | 0.30 | 8.0 | 2 | 25 | 0 | 6 | sw. | Wm. Rex. |
| Edwardsville | Salt Lake | | 4 | 27.8 | | 46 | 17 | 2 | 20 | 24 | 0.95 | | 0.50 | 9.5 | 5 | | | | | E. J. Bench. |
| Edwardsville | Salt Lake | 4,366 | 34 | 30.1 | -2.0 | 49 | 4 | 6 | 20 | 23 | 0.45 | -0.88 | 0.34 | 6.2 | 6 | 5 | 14 | 12 | se. | Section Center. |
| Edwardsville | Salt Lake | | 1 | | | | | | | | | | | | | | | | | N. J. Ferhaff. |
| Edwardsville | Boxelder | 4,360 | 18 | 24.7 | -0.7 | 49 | *3 | -9 | 19 | 46 | 0.30 | -0.71 | 0.20 | 3.0 | 2 | 9 | 14 | 8 | s. | Joseph Robbins. |
| Edwardsville | Wasatch | | 2 | | | | | | | | | | | | | | | | | U. S. Reclamation Service. |
| Edwardsville | Wasatch | 5,597 | 2 | 12.3 | | 41 | 10 | -29 | 20 | 49 | 0.85 | | 0.45 | 8.5 | 4 | 11 | 12 | 8 | | M. M. Smith. |
| Edwardsville | Tooele | 4,900 | 12 | 28.9 | -0.8 | 50 | 26 | -1 | 20 | 35 | 1.01 | +0.12 | 0.71 | | 4 | 6 | 18 | 7 | nw. | E. A. Bonelli. |
| Edwardsville | Uinta | | 13 | 13.3 | -4.7 | 36 | 16 | -17 | 21 | 30 | 0.80 | +0.32 | 0.47 | 8.0 | 3 | 16 | 3 | 12 | | Joab Collier. |
| Edwardsville | Rich | 6,500 | 11 | | | | | | | | | | | | | | | | | James Stuart. |
| Averages | | | | 23.7 | -2.7 | | | | | | 0.70 | -0.46 | | 7.7 | 4 | 12 | 9 | 10 | w. | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | |
| Edwardsville (near) S. | Sevier | | 2 | 25.5 | | 54 | *9 | -14 | *20 | 38 | 0.48 | | 0.40 | 6.0 | 4 | 9 | 13 | 9 | sw. | J. W. Fairbanks. |
| Edwardsville | Millard | 4,872 | 8 | | | | | | | | | | | | | | | | | A. H. Cassell. |
| Edwardsville | Emery | 5,500 | 9 | 17.4 | -6.5 | 45 | 6 | -17 | *19 | 45 | 0.80 | +0.70 | 0.60 | | 3 | 21 | 9 | 1 | | James Jeffs. |
| Edwardsville | Millard | 4,541 | 14 | 22.8 | -2.2 | 52 | 9 | -10 | 20 | 42 | 0.34 | -0.15 | 0.14 | 7.0 | 3 | 17 | 5 | 9 | n. | S. W. Western. |
| Edwardsville | Uinta | | | | | | | | | | | | | | | | | | | H. J. Cooper. |
| Edwardsville | Emery | 6,260 | 8 | 26.8 | +0.7 | 58 | 11 | -8 | 18 | 51 | 0.40 | +0.30 | 0.40 | 4.0 | 1 | 1 | 5 | 25 | n. | H. C. Wickman. |
| Edwardsville | Millard | 5,100 | 18 | 31.0 | +1.4 | 58 | 10 | -9 | 19 | 39 | 1.55 | +0.50 | 1.10 | | 3 | | | | | J. J. Starley. |
| Edwardsville | Millard | 5 | 28.2 | | | 53 | *26 | 9 | 19 | 40 | 0.26 | | | | 4 | 13 | 2 | 10 | s. | E. M. Smith. |
| Edwardsville | Tooele | 5,277 | 8 | 28.4 | +0.4 | 47 | *8 | -3 | 18 | 30 | 0.72 | +0.09 | 0.30 | 6.5 | 5 | 12 | 9 | 10 | s. | Walter James. |
| Edwardsville | Emery | 4,080 | 11 | 20.2 | -4.8 | 47 | 5 | 20 | 35 | 0.65 | +0.49 | 0.40 | 2.0 | 2 | 23 | 6 | 2 | | | J. H. Fritz. |
| Edwardsville | Tooele | 7,500 | 2 | 25.8 | | 64 | | -8 | 20 | 44 | T. | | T. | | 0 | 21 | 9 | 1 | n. | E. S. Gamwell. |
| Edwardsville | Millard | | 1 | | | | | | | | 1.11 | | 0.57 | | 3 | | | | | Geo. Crane. |
| Edwardsville | Juab | 5,010 | 18 | 24.5 | -0.4 | 48 | 9 | -14 | 20 | 34 | 1.40 | -0.26 | 0.88 | 14.0 | 3 | 17 | 4 | 10 | sw. | William Brown. |
| Edwardsville | Sanpete | 5,575 | 14 | 23.1 | -2.3 | 43 | 10 | -13 | 19 | 31 | 0.75 | +0.01 | 0.35 | 7.5 | 3 | 17 | 0 | 14 | | J. M. Anderson. |
| Edwardsville | Sanpete | | | | | | | | | | 1.30 | | 0.60 | 13.0 | 4 | 8 | 21 | 2 | sw. | B. F. Eliason. |
| Edwardsville | Utah | 4,650 | 7 | 25.2 | -1.5 | 50 | 8 | -8 | 20 | 30 | 0.73 | +0.22 | 0.32 | 4.0 | 5 | 18 | 6 | 7 | s. | D. C. Walkey. |
| Edwardsville | Sanpete | 5,859 | 16 | | | | | | | | | | | | | | | | | Miss Jane Martin. |
| Edwardsville | Juab | | 3 | | | | | | | | 0.60 | | 0.29 | 7.0 | 6 | 19 | 2 | 10 | nw. | A. Madsen. |
| Edwardsville | Millard | | 3 | 26.6 | | 56 | 14 | -11 | 18 | 33 | 0.86 | | 0.78 | | 2 | 26 | 2 | 3 | sw. | J. Finlinson. |
| Edwardsville | Utah | 4,637 | 3 | | | | | | | | 1.89 | | 0.40 | 16.5 | 7 | 7 | 11 | 13 | sw. | D. L. Coombs. |
| Edwardsville | Utah | 4,532 | 16 | 28.8 | +0.1 | 50 | *10 | -6 | 20 | 33 | 0.75 | -0.66 | 0.20 | 6.0 | 4 | 9 | 15 | 7 | | James A. Oliver. |
| Edwardsville | Sevier | 5,350 | 18 | 25.3 | -2.9 | 54 | 8 | -13 | 20 | 44 | 0.50 | -0.18 | 0.50 | 6.0 | 1 | 23 | 2 | 5 | | J. J. Jensen. |
| Edwardsville | Millard | 5,260 | 13 | 25.6 | +0.2 | 53 | 9 | -25 | 20 | 50 | 0.74 | -0.15 | 0.41 | 6.0 | 3 | 20 | 2 | 9 | sw. | Thomas Memmott. |
| Edwardsville | Carbon | | | 9.7 | | 45 | 27 | -26 | 19 | 61 | 1.88 | | 1.28 | 11.5 | 2 | 25 | 4 | 2 | | O. E. Jorgensen. |
| Edwardsville | Utah | 7,474 | 16 | | | | | | | | | | 0.80 | 10.0 | 2 | | | | | Agent Rio Grande R. R. |
| Edwardsville | Carbon | | 3 | | | | | | | | 1.00 | | | | | | | | | Henry Cullum. |
| Edwardsville | Utah | 5,075 | 16 | 24.8 | -0.4 | 50 | *12 | -14 | 19 | 44 | 0.14 | -1.29 | 0.06 | | 4 | 19 | 11 | 1 | | Agt. Rio Grande W. R. R. |
| Edwardsville | Juab | | 3 | | | | | | | | | | | | | | | | | Frank Parker. |
| Edwardsville | Utah | | 3 | | | | | | | | | | | | | | | | | W. A. Knight. |
| Edwardsville | Carbon | 5,540 | 9 | 11.2 | -14.5 | 47 | 8 | -29 | 19 | 36 | 1.20 | +1.11 | 0.80 | 12.0 | 2 | | | | | Melville Branch. |
| Averages | | | | 23.6 | -1.3 | | | | | | 0.87 | -0.19 | | 8.2 | 3 | 16 | 7 | 8 | sw. | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | |
| Edwardsville | San Juan | 4,800 | 8 | | | | | | | | | | | | | | | | | Miss S. Hubert. |
| Edwardsville | Beaver | | 3 | 28.9 | | 57 | 26 | -10 | *19 | 42 | 1.06 | | 0.50 | 10.6 | 5 | 14 | 10 | 7 | sw. | James Connell. |
| Edwardsville | Iron | | 4 | 32.1 | | 55 | 8 | -3 | 19 | 37 | 0.67 | | 0.58 | 8.0 | 5 | 10 | 12 | 9 | ne. | J. M. Foster. |
| Edwardsville | Garfield | | 7 | | | | | | | | | | | | | | | | | Mrs. E. Clayton. |
| Edwardsville | Washington | | 2 | | | | | | | | 0.73 | | | 10.0 | 5 | 11 | 14 | 6 | | John Day. |
| Edwardsville | Garfield | 5,700 | 8 | 25.3 | | 51 | 10 | -10 | 20 | 45 | 1.40 | | 1.40 | | 1 | 23 | 0 | 8 | | Geo. H. Barney. |
| Edwardsville | Washington | | 4 | 35.8 | | 59 | 9 | 16 | 20 | 36 | | | | | 12 | 8 | 11 | | | Joseph T. Atkins. |
| Edwardsville | Beaver | 7,318 | 14 | 29.5 | -2.9 | 49 | *8 | -3 | 18 | 32 | 0.60 | +0.27 | 0.60 | 6.0 | 1 | | | | | E. R. Smyth. |
| Edwardsville | San Juan | | 3 | 25.9 | | 50 | 28 | -9 | 25 | 54 | 6.20 | | 2.80 | 22.0 | 5 | 21 | 3 | 7 | s. | Joseph A. Lyman. |
| Edwardsville | Garfield | 3,000 | 9 | 33.4 | -2.1 | 52 | 6 | 17 | *20 | 27 | 1.83 | +1.74 | 0.97 | | 5 | 23 | 2 | 6 | nw. | J. P. Hite. |
| Edwardsville | Kane | 4,925 | 8 | | | | | | | | | | | | | | | | | W. J. F. McAllister. |
| Edwardsville | San Juan | 7,000 | 8 | 25.4 | -0.7 | 47 | *9 | -5 | 19 | 34 | 1.55 | | 1.55 | | 1 | 14 | 11 | 5 | | Mrs. G. W. Carpenter. |
| Edwardsville | Wayne | 7,000 | 16 | 16.0 | -5.4 | 45 | 14 | -25 | 18 | | | | | | | | | | | |

SOUTHERN

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Aneth. | 51 | 56 | 47 | 39 | 43 | 39 | 45 | 55 | 52 | 45 | 43 | 51 | 52 | 44 | 46 | 45 | 42 | 51 | 46 | 42 | 35 | 36 | 32 | 28 | 27 | 24 | 26 | 10 | 36 | 44 | 40 | 40 | 41 | 38 | 47 | 45 | 57 | 46 | 51 | 50 | 43 | 45 | 52 | 42 | 47 | 45 | 52 | 45 | 50 | 39 | 43 | 46 | 51 | 52 |
| Beaver | 47 | 46 | 45 | 39 | 44 | 38 | 44 | 55 | 52 | 45 | 43 | 49 | 45 | 42 | 43 | 44 | 41 | 49 | 42 | 43 | 35 | 36 | 32 | 30 | 28 | 27 | 24 | 26 | 10 | 36 | 44 | 40 | 40 | 41 | 38 | 47 | 45 | 57 | 46 | 51 | 50 | 43 | 45 | 52 | 45 | 50 | 39 | 43 | 46 | 51 | 52 | | | |
| Cedar City | 47 | 46 | 45 | 39 | 44 | 38 | 44 | 55 | 52 | 45 | 43 | 49 | 45 | 42 | 43 | 44 | 41 | 49 | 42 | 43 | 35 | 36 | 32 | 30 | 28 | 27 | 24 | 26 | 10 | 36 | 44 | 40 | 40 | 41 | 38 | 47 | 45 | 57 | 46 | 51 | 50 | 43 | 45 | 52 | 45 | 50 | 39 | 43 | 46 | 51 | 52 | | | |
| Coyote | 47 | 46 | 45 | 39 | 44 | 38 | 44 | 55 | 52 | 45 | 43 | 49 | 45 | 42 | 43 | 44 | 41 | 49 | 42 | 43 | 35 | 36 | 32 | 30 | 28 | 27 | 24 | 26 | 10 | 36 | 44 | 40 | 40 | 41 | 38 | 47 | 45 | 57 | 46 | 51 | 50 | 43 | 45 | 52 | 45 | 50 | 39 | 43 | 46 | 51 | 52 | | | |
| Escalette | 45 | 47 | 43 | 42 | 46 | 37 | 42 | 45 | 47 | 42 | 51 | 51 | 43 | 45 | 46 | 44 | 43 | 45 | 48 | 43 | 36 | 38 | 35 | 30 | 28 | 27 | 30 | 38 | 30 | 33 | 36 | 32 | 34 | 38 | 49 | 50 | 51 | 52 | 46 | 37 | 41 | 40 | 38 | 4 | 39 | 4 | 40 | 42 | 40 | 4 | 40 | 42 | 40 | 4 |
| Experiment Farm | 56 | 51 | 50 | 34 | 49 | 51 | 54 | 58 | 54 | 59 | 54 | 59 | 51 | 53 | 43 | 43 | 46 | 53 | 49 | 43 | 34 | 36 | 37 | 19 | 18 | 38 | 40 | 40 | 38 | 40 | 41 | 48 | 40 | 49 | 48 | 50 | 51 | 52 | 46 | 37 | 41 | 40 | 38 | 4 | 40 | 42 | 40 | 4 | 40 | 42 | 40 | 4 | | |
| Frisco | 44 | 42 | 44 | 39 | 42 | 41 | 40 | 38 | 41 | 43 | 44 | 42 | 47 | 43 | 47 | 37 | 34 | 38 | 42 | 37 | 34 | 30 | 28 | 15 | 13 | 30 | 21 | 20 | 1 | 35 | 2 | 35 | 3 | 38 | 35 | 40 | 45 | 40 | 45 | 49 | 41 | 45 | 40 | 45 | 49 | 49 | 40 | 4 | 40 | 49 | 40 | 4 | | |
| Grayson | 45 | 42 | 41 | 44 | 40 | 42 | 43 | 46 | 43 | 45 | 39 | 42 | 44 | 41 | 40 | 45 | 42 | 42 | 35 | 40 | 38 | 35 | 30 | 28 | 15 | 13 | 30 | 21 | 20 | 1 | 35 | 2 | 35 | 3 | 38 | 35 | 40 | 45 | 40 | 45 | 49 | 41 | 45 | 40 | 45 | 49 | 40 | 4 | 40 | 49 | 40 | 4 | | |
| Hite | 50 | 56 | 46 | 39 | 43 | 46 | 39 | 47 | 49 | 46 | 48 | 50 | 49 | 47 | 42 | 43 | 46 | 47 | 41 | 42 | 43 | 41 | 30 | 28 | 43 | 38 | 19 | 35 | 17 | 35 | 17 | 38 | 18 | 41 | 48 | 46 | 39 | 38 | 41 | 45 | 40 | 45 | 49 | 41 | 45 | 40 | 45 | 49 | 40 | 4 | 40 | 49 | 40 | 4 |
| Kanab | 41 | 49 | 21 | 36 | 58 | 33 | 22 | 37 | 18 | 33 | 9 | 43 | 47 | 40 | 38 | 40 | 41 | 44 | 42 | 36 | 37 | 38 | 37 | 12 | 22 | 25 | 21 | 0 | 31 | 5 | 37 | 16 | 33 | 40 | 47 | 47 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 |
| La Sal | 48 | 48 | 40 | 40 | 36 | 40 | 40 | 35 | 38 | 40 | 40 | 5 | 49 | 48 | 40 | 41 | 41 | 42 | 36 | 37 | 38 | 37 | 8 | 12 | 22 | 25 | 21 | 0 | 31 | 5 | 37 | 16 | 33 | 40 | 47 | 47 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 |
| Loa | 48 | 48 | 40 | 40 | 36 | 40 | 40 | 35 | 38 | 40 | 40 | 5 | 49 | 48 | 40 | 41 | 41 | 42 | 36 | 37 | 38 | 37 | 8 | 12 | 22 | 25 | 21 | 0 | 31 | 5 | 37 | 16 | 33 | 40 | 47 | 47 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 |
| Marysville [near] | 48 | 48 | 40 | 40 | 36 | 40 | 40 | 35 | 38 | 40 | 40 | 5 | 49 | 48 | 40 | 41 | 41 | 42 | 36 | 37 | 38 | 37 | 8 | 12 | 22 | 25 | 21 | 0 | 31 | 5 | 37 | 16 | 33 | 40 | 47 | 47 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 | 38 | 40 | 44 | 47 | 43 | 45 |
| Milford | 32 | 34 | 34 | 34 | 42 | 40 | 41 | 42 | 41 | 50 | 51 | 47 | 47 | 44 | 44 | 44 | 44 | 50 | 48 | 44 | 36 | 41 | 40 | 14 | 14 | 18 | 15 | 21 | 17 | 36 | 4 | 47 | 35 | 42 | 47 | 32 | 34 | 31 | 36 | 2 | 34 | 31 | 39 | 4 | 41 | 38 | 35 | 39 | 4 | 41 | 38 | 35 | 39 | |
| Moab | 45 | 40 | 39 | 38 | 40 | 42 | 43 | 44 | 43 | 47 | 48 | 41 | 48 | 46 | 49 | 48 | 40 | 46 | 40 | 38 | 36 | 40 | 47 | 30 | 28 | 14 | 14 | 18 | 15 | 21 | 17 | 36 | 4 | 47 | 32 | 34 | 31 | 36 | 2 | 34 | 31 | 39 | 4 | 41 | 38 | 35 | 39 | 4 | 41 | 38 | 35 | 39 | | |
| Moena | 43 | 46 | 40 | 41 | 32 | 43 | 40 | 40 | 42 | 45 | 46 | 47 | 48 | 41 | 48 | 40 | 46 | 45 | 46 | 47 | 47 | 47 | 44 | 30 | 28 | 14 | 14 | 18 | 15 | 21 | 17 | 36 | 4 | 47 | 32 | 34 | 31 | 36 | 2 | 34 | 31 | 39 | 4 | 41 | 38 | 35 | 39 | 4 | 41 | 38 | 35 | 39 | | |
| Panguan | 47 | 42 | 48 | 42 | 43 | 45 | 42 | 45 | 43 | 47 | 46 | 44 | 49 | 56 | 51 | 55 | 47 | 52 | 44 | 42 | 40 | 40 | 47 | 30 | 28 | 14 | 14 | 18 | 15 | 21 | 17 | 36 | 4 | 47 | 32 | 34 | 31 | 36 | 2 | 34 | 31 | 39 | 4 | 41 | 38 | 35 | 39 | 4 | 41 | 38 | 35 | 39 | | |
| Pinto | 40 | 40 | 46 | 42 | 43 | 44 | 41 | 48 | 49 | 47 | 36 | 40 | 45 | 42 | 46 | 20 | 50 | 14 | 39 | 43 | 44 | 7 | 48 | 13 | 45 | 20 | 22 | 35 | 32 | 2 | 40 | 10 | 40 | 40 | 45 | 50 | 49 | 45 | 42 | 46 | 48 | 47 | 42 | 40 | 46 | 43 | 46 | 43 | 46 | 48 | | | | |
| Ranch | 47 | 42 | 38 | 37 | 36 | 42 | 44 | 47 | 48 | 4 | 43 | 5 | 45 | 46 | 44 | 43 | 44 | 43 | 45 | 42 | 35 | 36 | 32 | 20 | 12 | 22 | 35 | 32 | 2 | 40 | 10 | 40 | 40 | 45 | 50 | 49 | 45 | 42 | 46 | 48 | 47 | 42 | 40 | 46 | 43 | 46 | 48 | | | | | | | |
| St. George | 57 | 60 | 33 | 53 | 36 | 54 | 42 | 50 | 43 | 59 | 58 | 61 | 62 | 63 | 62 | 58 | 24 | 57 | 24 | 41 | 34 | 33 | 20 | 20 | 12 | 22 | 35 | 32 | 2 | 40 | 10 | 40 | 40 | 45 | 50 | 49 | 45 | 42 | 46 | 48 | 47 | 42 | 40 | 46 | 43 | 46 | 48 | | | | | | | |
| Springle | 52 | 59 | 50 | 38 | 49 | 38 | 40 | 59 | 52 | 38 | 60 | 39 | 60 | 39 | 52 | 36 | 53 | 52 | 58 | 57 | 34 | 58 | 45 | 33 | 48 | 38 | 14 | 36 | 13 | 37 | 15 | 41 | 49 | 46 | 40 | 40 | 50 | 22 | 50 | 31 | 55 | 27 | 57 | 39 | 50 | 38 | 50 | 38 | 50 | 38 | 50 | 38 | | |
| Twist | 49 | 43 | 46 | 48 | 45 | 35 | 27 | 44 | 30 | 44 | 44 | 42 | 47 | 43 | 46 | 46 | 44 | 48 | 47 | 43 | 45 | 41 | 39 | 35 | 29 | 2 | 0 | 6 | 31 | 9 | 4 | 12 | 34 | 3 | 32 | 5 | 38 | 1 | 43 | 5 | 42 | 2 | 36 | 7 | 41 | 6 | 46 | 14 | 44 | 11 | 42 | 9 | | |
| Tropic | 49 | 43 | 46 | 48 | 45 | 35 | 27 | 44 | 30 | 44 | 44 | 42 | 47 | 43 | 46 | 46 | 44 | 48 | 47 | 43 | 45 | 41 | 39 | 35 | 29 | 2 | 0 | 6 | 31 | 9 | 4 | 12 | 34 | 3 | 32 | 5 | 38 | 1 | 43 | 5 | 42 | 2 | 36 | 7 | 41 | 6 | 46 | 14 | 44 | 11 | 42 | 9 | | |

TOTAL PRECIPITATION DECEMBER 1908



H.T.

SCALE OF SHADES IN INCHES



Day of month.

† Precipitation incomplete.

661.06
UNU

U. S. DEPARTMENT OF AGRICULTURE

ANNUAL SUMMARY, 1908.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

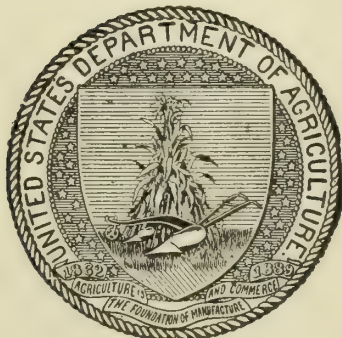
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

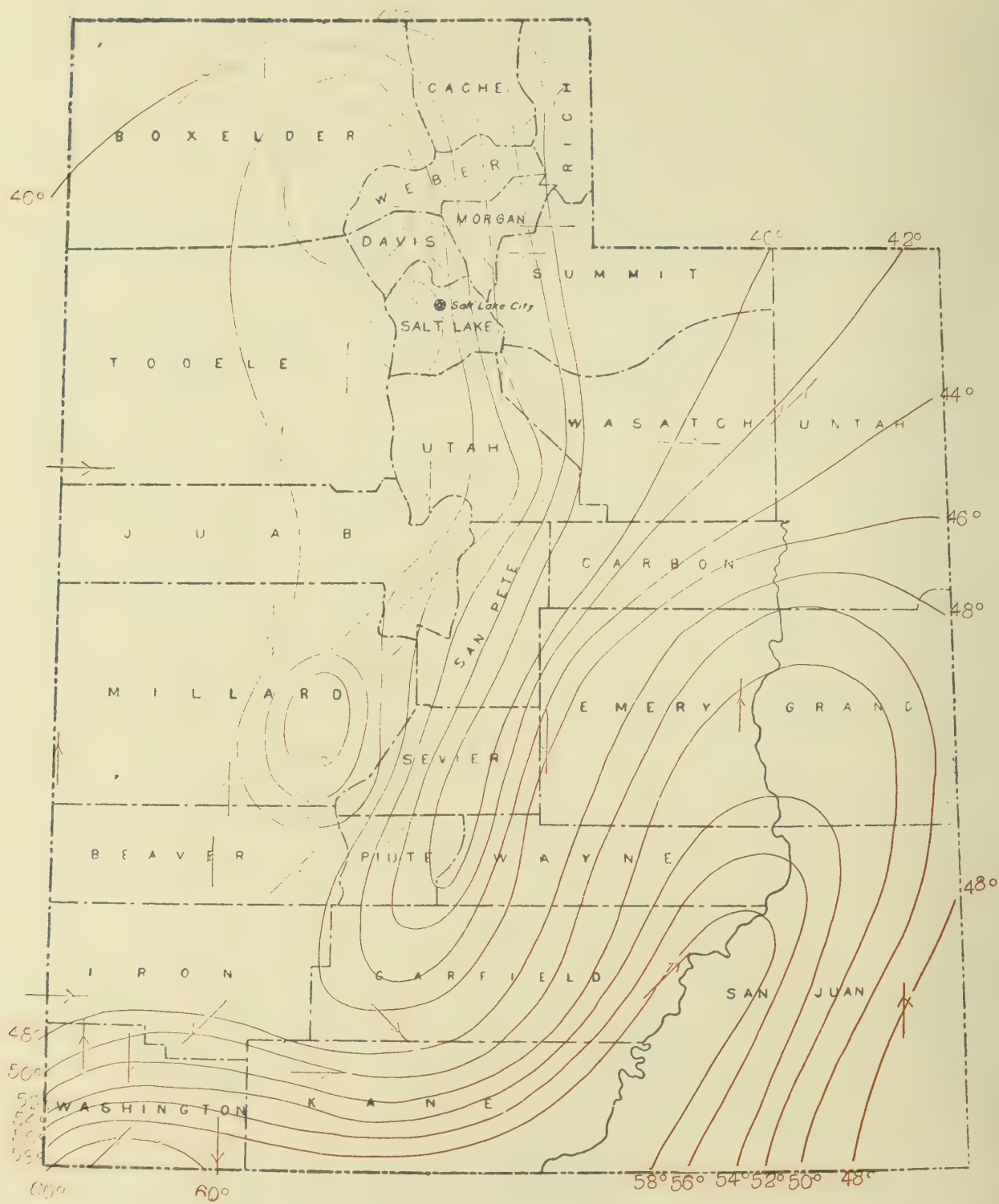
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

JANUARY 25, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, YEAR, 1908.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. X. SALT LAKE, UTAH, ANNUAL SUMMARY, 1908. No. 17

GENERAL SUMMARY.

The mean temperature for the year was 1.2° below the normal for the State, and was the lowest annual mean during the last ten years, except that of 1903. The total precipitation was less than that of 1906 or 1907, but greater than that of all years from 1898 to 1905, inclusive, and exceeded the normal by .27 inches.

The geographical distribution of temperature compared closely to that of last year, and shows a striking relation to the topographic features of the State. Mean temperatures above the State average obtained in the Virgin river valley in Washington county, the Green and Colorado river valleys in the eastern portion of the State, the Sevier valley in the western portion, and the Salt Lake valley in the northern portion. The cold areas comprised the mountain and elevated plateau districts extending from north to south thru the middle of the State. During the first four months of the year, the mean temperature was above the seasonal average. May and June presented similar temperature conditions to the same months of last year, being exceptionally cold. The highest temperature during the year was 109° at Green River, Emery county, on August 4th, and the lowest, -34° , at Woodruff, Rich county, on February 1st. Killing frosts occurred until the latter part of June, which was later than the average date, and caused much damage over the State. Damaging frosts occurred unusually early in the autumn, being reported over most localities as early as September 17th to 20th. These were less harmful, however, than the late spring frosts.

There was an excess of precipitation during each month from May to October, inclusive, the remaining months having amounts less than their respective normals. The greatest local monthly amount was 6.20 inches at Grayson during December, and the least occurred at a number of stations in the arid districts, where none was recorded for one or more months. The snowfall during the winter months was slightly above the average, and was sufficiently well conserved to furnish an ample supply of water for irrigation purposes thruout the growing season.

The prevailing wind direction for the northern section was west, and for the middle and southern sections, southwest. There were but few damaging wind storms during the year.

THE WEATHER BY MONTHS.

January.—The mean temperature was above normal over the State, except in the northeastern portion, where a considerable deficiency in temperature occurred. The precipitation was generally deficient, except in the southern counties, where it averaged above the normal. The amount of snow on the ground at the close of the month was much below the average in the mountain districts as well as in the valleys. The sunshine was in excess during the first half, but considerably below the normal during the latter half of the month.

February.—The month opened with comparatively cold weather, which soon moderated, however, and nearly normal temperature conditions obtained until the 12th, when another cool spell commenced. This lasted during the remainder of the second decade; thereafter the temperature rose gradually until the close of the month. The precipitation was unevenly distributed. Over the northern and middle sections it was abnormally light, while thruout the southern portion an excess was general. Thunderstorms, accompanied by sleet and hail in some localities, took place during the last week of the month. The sunshine was abundant over the northern half of the State, but was slightly deficient over the southern portion.

March.—The mean temperature was generally above the normal, except in the extreme northwest portion, and some localities in the central portion. Unseasonably warm weather prevailed from the 11th to the 18th, the remaining portion of the month being mostly below the normal temperature. The precipitation was unevenly distributed. It was very light in the western part of the northern and middle sections, and was also below normal over the remainder of the State, except in the eastern portion and local areas in the central and southern portions. High winds were general, but no damage resulted. There was an excess of clear weather during the month.

April.—The temperature was above the normal, while the precipitation was greatly deficient. The month was warmer than any April during the past 17 years, with two exceptions, 1898 and 1907. The precipitation was the lightest for this month during the same 17-year period. The thermal excess was uniform over all sections. The lowest temperatures occurred at a large number of stations during the first week, and the highest, 80° or more, were recorded during the second decade of the month. Severe frosts, causing much damage, occurred during the closing week. The precipitation averaged 31 per cent. of the normal amount over the northern, 31 per cent. over the middle, and 72 per cent. over the southern section. The sunshine was considerably above the normal.

May.—The temperature was below the normal nearly every day during the month, and the mean temperature was lower than for this month during the past 17 years, the period for which records have been kept. The precipitation was nearly twice the normal amount, and was greater than for any May during the past 17 years, except that of 1898. The precipitation was heaviest in the counties bordering Great Salt Lake on the east, together with Utah and eastern Juab counties. It was comparatively light in some localities along the western border of the State, and thruout the Green and Colorado river valleys.

The sunshine was greatly deficient over the northern half, but nearly normal in amount over the southern portion of the State. High winds were prevalent in the southern counties.

June.—This was the coldest and wettest June, except that of 1907, for the past 17 years. The deficiency in temperature obtained over all districts, but was greatest for the northern section. Frosts and freezing temperatures caused damage in some places during the first half of the month. The precipitation was unevenly distributed. It was much in excess of the normal over the northern and middle sections, and deficient over the southern section. Abundant sunshine prevailed, except during the first week. A wind of 68 miles per hour occurred at Modena on the 2d, causing some damage to property.

July.—Nearly normal temperature conditions obtained throughout the month, with no pronounced periods of hot or cold weather. The precipitation was above the seasonal average except in the north and northeastern portions. More than two inches of rain fell over a considerable area in the southwestern portion, and an inch or more fell over practically the entire southern section. Thunderstorms were frequent, and damaging floods occurred in some localities. The sunshine was plentiful except over the southern section.

August.—The temperature was below the normal, while the precipitation was somewhat in excess of the seasonal average. The first half of the month was unusually warm, but the latter half was abnormally cool. Light to killing frosts occurred in many localities during the last three days. The rainfall was greatest over the southern section, and least over the northern.

September.—The month as a whole was cool, with a slight excess of cloudiness, and abnormally heavy precipitation. Warm and pleasant weather prevailed during the fore part of the month. The latter portion was characterized by low temperatures, which were accompanied by killing frosts over much of the State. The precipitation was more than twice the normal amount, and was well distributed over all sections. The rainfall was heavier than that of any other September during the past 17 years, except that of 1905.

October.—The mean temperature was the lowest, and the precipitation the heaviest for this month in the past 17 years, the rainfall being three times the average amount. The temperature averaged from 3° to 5° below the normal over all portions of the State. The rainfall occurred in two principal periods, from the 2d to the 5th, and from the 15th to the 21st. The sunshine was below the normal. High winds were frequent.

November.—The month was characterized by clear and dry weather during the first 20 days, stormy conditions from the 21st to the 25th, and clear and abnormally cold weather during the closing days. The precipitation was above the normal in the vicinity of Great Salt Lake, but deficient in nearly all other sections. Over 20 inches of snow fell in the vicinity of Salt Lake City and Ogden, between the 22d and 25th, the greatest amount ever recorded in that locality from one storm during the entire 24-year period of snowfall records. Much damage was caused by the storm to electric, telegraph and telephone lines in Salt Lake City, and some delay to railroad and street car traffic occurred.

December.—Both the precipitation and the temperature were below the normal. This was the coldest December for the past 10 years, except that of 1905. The precipitation was less than that of this month in 1906 and 1907, but greater than all other years since 1897. The first half of the month was comparatively warm, as also were the last four days. The coldest weather, bringing zero temperatures in all sections, extended from the 18th to the 26th. The precipitation was excessive over the eastern and southern portions, and generally below the normal over the remainder of the State.

KILLING FROSTS

| Stations. | Last in Spring. | First in Autumn. | Stations. | Last in Spring. | First in Autumn. |
|------------------------|-----------------|------------------|-------------------|-----------------|------------------|
| NORTHERN. | | | | | |
| Alpine. | June 23 | | Mount Nebo. | May 22* | Sept. 26 |
| Corinne. | May 17* | Sept. 25* | Mount Pleasant. | | do 26 |
| Farmington. | June 3* | do 26* | Nephi. | | do 26 |
| Ft. Duchesne. | May 19 | Aug. 31* | Nephi, near. | June 23 | do 25 |
| Heber. | June 23 | Sept. 27 | Oak City. | May 21* | do 28* |
| Henefer. | do 24 | Aug. 31 | Provo. | do 17* | do 26 |
| Huntsville. | do 23 | do 31 | Richfield. | June 30* | do 2 |
| Kelton. | May 17* | Sept. 23* | Scipio. | do 29* | Aug. 31 |
| Logan. | do 10* | do 25* | Seofield. | | |
| Lucin. | do 21* | do 24* | Soldier Summit. | | |
| Marion. | do 21 | Aug. 26 | Sunnyside. | | |
| Meadowville. | do 14 | do 26 | Thistle. | June 8 | Sept. 1 |
| Morgan. | June 30 | do 29 | Trout Creek. | | |
| Ogden No. 1. | April 26* | Sept. 25* | Utah Lake P. Sta. | | Aug. 29 |
| Ogden, No. 2. | | do 26 | Wellington. | June 19 | Sept. 1 |
| Park City. | June 23* | Aug. 31* | SOUTHERN. | | |
| Randolph. | do 24 | do 27 | Aneth. | | |
| Saltair Beach. | April 9* | Sept. 27* | Beaver. | June 6* | Aug. 31* |
| Salt Lake City. | do 7* | do 27 | Cedar City. | May 20 | Sept. 26 |
| Silver Lake. | | | Coyote. | June 22* | do 25 |
| Snowville. | June 28 | Sept. 27 | Enterprise, near. | May 26 | |
| Strawberry Valley. | | | Escalante. | June 4* | Sept. 26* |
| Theodore. | June 23 | Aug. 31 | Experiment Farm. | June 1* | Oct. 4* |
| Tooele. | May 26* | do 31 | Frisco. | June 4* | Sept. 26* |
| Vernal, near. | | Sept. 26 | Grayson. | do 6* | do 26* |
| Woodruff. | June 23* | | Hite. | Mar. 12* | Oct. 21* |
| MIDDLE. | | | | | |
| Annabella, near. | May 29 | Aug. 31 | Kanab. | | |
| Black Rock. | | | La Sal. | June 2* | Sept. 26* |
| Castle Dale. | June 23* | Aug. 30* | Loa. | do 24* | Aug. 31* |
| Deseret. | May 21 | do 31 | Marysville, near. | May 21 | do 31 |
| Dragon. | | | Milford. | do 30* | do 30* |
| Emery. | June 22 | Sept. 26 | Moab. | do 18 | Sept. 27 |
| Fillmore. | May 20* | do 26* | Modena. | do 27 | do 26 |
| Garrison. | June 24* | Aug. 31* | Panguitch. | | |
| Government Creek. | May 24* | Sept. 25 | Parowan. | May 9 | Sept. 27* |
| Green River. | do 31* | do 27* | Pinto. | June 5* | do 17* |
| Ithapah, near. | June 23* | Aug. 30* | Plateau. | | |
| Levan. | May 10 | Sept. 26* | Ranch. | June 20* | Aug. 29* |
| Manti. | | Aug. 31 | St. George. | Mar. 29* | Oct. 21* |
| Moroni. | | Sept. 25 | Springdale. | April 9* | do 19* |
| | | | Tesdale. | May 27* | Sept. 23 |
| | | | Tropic. | June 19* | |

* No records of frost were kept, date of freezing temperature.

† Records of frost not kept previous to May 1st, date of freezing temperature.

CONDENSED SUMMARY FOR THE YEAR.

| Stations. | Temperature. | | | | Precipitation. | |
|------------|--------------|-------|-------|------|----------------|--------|
| | Mean. | Dep. | High. | Low. | Aver. | Dep. |
| January. | 27.8 | - 1.7 | 80 | -22 | 0.79 | - 0.34 |
| February. | 31.2 | + 2.0 | 80 | -34 | 1.16 | - 0.30 |
| March. | 39.8 | + 1.1 | 90 | -20 | 1.10 | - 0.40 |
| April. | 49.4 | + 2.1 | 89 | 1 | 0.49 | - 0.80 |
| May. | 50.7 | - 5.2 | 90 | 11 | 2.35 | + 1.30 |
| June. | 59.6 | - 5.7 | 104 | 20 | 1.09 | + 0.97 |
| July. | 71.5 | - 0.3 | 108 | 30 | 0.06 | + 0.41 |
| August. | 68.1 | - 2.3 | 100 | 22 | 1.20 | + 0.39 |
| September. | 59.3 | - 1.1 | 102 | 8 | 1.87 | + 1.02 |
| October. | 44.8 | - 4.0 | 94 | - 9 | 2.22 | + 1.48 |
| November. | 36.0 | - 1.5 | 78 | -14 | 0.62 | - 0.30 |
| December. | 25.4 | - 1.7 | 66 | -29 | 0.97 | - 0.16 |
| Annual. | 47.7 | - 1.2 | 109 | -34 | 15.46 | + 3.27 |

Climatological Data for Year 1908.

| Climatological Data for Year 1908. | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------|-----------------------------------|--------------------------|--------------|----------|----------|---------|----------|--------------------------|---------------------|-------------------|--------|----------------|--------|-----------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|
| | | Temperature (degrees Fahrenheit). | | | | | | | Precipitation (inches). | | | | | | | Sky. | | | | Prevailing direction of wind. |
| Stations. | Counties. | Elevation, feet. | Length of record, years. | Annual mean. | Highest. | Date. | Lowest. | Date. | Length of record, years. | Total for the year. | Greatest monthly. | Month. | Least monthly. | Month. | Total snowfall. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 12 | | | | | | 12 | | | | | | | | | | | |
| Castle Rock | Summit | | 5 | | | | | | 5 | | | | | | | | | | | |
| Corinne | Boxelder | 4,240 | 38 | 50.0 | 104 | July 11* | -1 | Dec. 20* | 38 | 18.98 | 3.69 | May | 0.30 | Nov. | 91.5 | 54 | 111 | 175 | 78 | W |
| Farmington | Davis | 4,267 | 8 | 48.5 | 98 | do 12 | -1 | do 20* | 8 | 24.08 | 4.15 | Oct. | 0.09 | July | 28.7 | 64 | 211 | 73 | 80 | NW |
| Et. Duchesne | Uinta | 5,000 | 20 | | 97 | Aug. 9 | -25 | do 21 | 20 | 19.51 | 5.18 | May | 0.13 | Jan. | | | | | | SW |
| Grantsville (near) | Tooele | | 4 | | | | | | 4 | | 2.45 | *May | 0.36 | Jan. | | | | | | SW |
| Heber | Wasatch | 5,606 | 15 | 42.8 | 94 | July 14 | -16 | Dec. 19 | 15 | 17.41 | 2.68 | Oct. | 0.50 | April | | 80 | 187 | 91 | 88 | S |
| Henefer | Summit | 5,301 | 0 | 42.8 | 94 | Aug. 8 | -18 | do 18* | 0 | 19.85 | 3.35 | Sept. | 0.46 | Feb. | 69.1 | 102 | 182 | 105 | 79 | W |
| Huntsville | Weber | 5,100 | 13 | | | | | | 13 | 20.08 | 3.74 | Oct. | 0.31 | July | 55.0 | 74 | 174 | 120 | 72 | W |
| Kelton | Boxelder | 4,230 | 30 | 40.3 | 98 | Aug. 1 | -5 | Dec. 18* | 30 | 6.76 | 1.99 | *June | T. | Mar. | 13.0 | 32 | 137 | 109 | 60 | SW |
| Logan | Cache | 4,507 | 17 | 45.9 | 95 | July 8 | -6 | Feb. 1* | 17 | 18.77 | 4.01 | Oct. | 0.13 | Dec. | | 57 | | | | |
| Lucin | Boxelder | | 4 | | | | | | 4 | | 0.42 | May | 0.00 | April | | | | | | |
| Marion | Summit | | 4 | | | | | | 4 | | | | | | | | | | | |
| Meadowville | Rich | 6,200 | 9 | 40.3 | 92 | Aug. 9 | -14 | Feb. 1 | 9 | 18.98 | 4.25 | Oct. | 0.20 | July | 68.7 | 65 | 212 | 44 | 110 | W |
| Millville | Cache | 4,848 | 13 | | | | | | 13 | 18.37 | 4.20 | do | 0.42 | Dec. | | 86 | | | | |
| Morgan | Morgan | 5,080 | 5 | 43.4 | 94 | Aug. 8* | -19 | Jan. 11 | 5 | 20.88 | 4.16 | May | 0.43 | Aug. | 80.2 | 79 | 146 | 141 | 72 | NW |
| Ogden No. 1 | Weber | 4,310 | 7 | 49.0 | 93 | July 12 | 4 | Feb. 1 | 7 | 22.56 | 4.04 | Oct. | T. | July | 40.5 | 61 | 221 | 57 | 85 | NW |
| Ogden No. 2 | Weber | 4,310 | 38 | 52.3 | | | | | 38 | 20.44 | 5.02 | May | 0.04 | July | 38.0 | 86 | 172 | 97 | 97 | W |
| Park City | Summit | 7,800 | 11 | | 86 | Aug. 8 | | | 11 | | 2.34 | Sept. | 0.45 | April | | | | | | |
| Promontory | Boxelder | | 1 | | | | | | 1 | 8.82 | 1.74 | June | 0.05 | July | 43.5 | 50 | | | | |
| Randolph | Rich | | 5 | | | | | | 5 | 12.88 | 2.16 | Aug. | 0.37 | April | | 57 | 248 | 20 | 98 | SW |
| Salt Lake City | Salt Lake | 4,366 | 34 | 50.1 | 95 | July 13* | 6 | Feb. 1 | 5 | 17.93 | 4.08 | May | 0.15 | July | | 80 | | | | |
| Silver Lake | Salt Lake | | 2 | | | | | | 2 | 20.82 | 5.70 | do | 0.25 | do | 60.2 | 90 | 156 | 127 | 83 | SW |
| Snowville | Boxelder | 4,360 | 18 | 44.3 | 100 | Aug. 4 | -7 | Dec. 19 | 18 | 12.02 | 3.07 | May | 0.30 | *Jan. | | 59 | 137 | 167 | 62 | S |
| Strawberry Valley | Wasatch | | 4 | | | | | | 4 | | | | | | | | | | | |
| Theodore | Wasatch | 5,507 | 3 | 41.5 | 94 | Aug. 3* | -29 | Dec. 20 | 3 | 8.59 | 1.19 | Aug. | 0.25 | *Nov. | 36.5 | 60 | 113 | 157 | 96 | W |
| Tooele | Tooele | 4,900 | 12 | 48.5 | 92 | do 8* | -1 | do 20 | 12 | 23.50 | 5.48 | Aug. | 0.65 | *Apr. | | 88 | 126 | 100 | 140 | S |
| Vernal (near) | Uinta | | 13 | | | | | | 13 | | | | | | | | | | | |
| Woodruff | Rich | 6,500 | 11 | | | | | | 11 | | | | | | | | | | | |
| Averages | | | | 46.2 | | | | | | 17.49 | | | | | 54.2 | 70 | 169 | 110 | 87 | W |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) § | Sevier | | 3 | | 98 | July 22 | | | 3 | | | | | | | | | | | |
| Black Rock | Millard | 4,872 | 8 | | | | | | 8 | | 1.56 | Oct. | 0.05 | Nov. | | | | | | |
| Castle Dale | Emery | 5,500 | 9 | | | | | | 9 | | | | | | | | | | | |
| Deseret | Millard | 4,541 | 14 | 47.5 | 101 | do 24* | -16 | do 20 | 14 | 10.56 | 2.15 | Oct. | 0.11 | Jan. | 20.0 | 38 | 195 | 58 | 113 | N |
| Dragon | Uinta | | 8 | | | | | | 8 | | | | | | | | | | | |
| Emery | Emery | 6,260 | 8 | 47.1 | 89 | July 22* | -8 | Dec. 18 | 8 | 6.94 | 2.00 | Aug. | T. | *Mar. | | 17 | 57 | 78 | 231 | N |
| Fillmore | Millard | 5,100 | 18 | 52.0 | 105 | do 21 | -9 | do 19 | 18 | 18.43 | 4.15 | May | 0.36 | *Mar. | | 61 | | | | |
| Garrison | Millard | | 5 | | | do 3* | -9 | do 19 | 5 | 7.19 | 2.01 | Sept. | 0.10 | *Apr. | | 31 | 184 | 160 | 177 | S |
| Government Creek | Tooele | 5,277 | 8 | 47.4 | 96 | do 12* | -8 | Jan. 31 | 8 | 17.04 | 3.22 | do | 0.46 | Apr. | 59.5 | 70 | 186 | 78 | 102 | S |
| Green River | Emery | 4,080 | 11 | 52.6 | 109 | Aug. 4 | -9 | Dec. 20 | 11 | 6.46 | 1.50 | Aug. | 0.00 | Apr. | 8.0 | 22 | 267 | 59 | 25 | S |
| Hatch (near) | Tooele | 7,500 | 3 | | 88 | July 22 | -8 | do 20 | 3 | 14.58 | | | | T. | 105.7 | 62 | | | | W |
| Kanosh | Millard | | 2 | | | | | | 2 | 19.40 | 3.69 | May | 0.58 | *Apr. | | 64 | 195 | 74 | 97 | SW |
| Levan | Juab | 5,010 | 18 | 46.3 | 93 | Aug. 4 | -14 | Dec. 20 | 18 | 18.22 | 4.35 | do | 0.31 | April | 66.9 | 64 | | | | |
| Manti | Sanpete | 5,575 | 14 | | 84 | July 21 | | | 14 | | | | | | | | | | | |
| Moroni | Sanpete | | 7 | | 98 | July 3* | | | 7 | | 2.42 | May | 0.26 | April | | | | | | N |
| Mt. Nebo | Utah | 4,650 | 5 | | | | | | 5 | 16.84 | 4.46 | May | 0.44 | April | 55.8 | 83 | 222 | 92 | 52 | SW |
| Mt. Pleasant | Sanpete | 5,859 | 16 | | | | | | 16 | 17.05 | 3.64 | May | 0.29 | April | | 80 | 118 | 170 | 78 | SW |
| Nephi | Utah | | 3 | 49.6 | 99 | July 12* | 11 | Dec. 18 | 3 | 14.67 | 3.29 | do | 0.52 | Nov. | | 42 | 225 | 68 | 64 | SW |
| Nephi, near § | Millard | 4,637 | 5 | | | | | | 5 | 21.90 | 5.52 | do | 0.50 | July | 52.5 | 79 | 123 | 133 | 110 | SW |
| Oak City | Utah | 4,532 | 16 | | | | | | 16 | | | | | | | | | | | |
| Payson | Sevier | 5,350 | 18 | 46.1 | 97 | Aug. 9* | -13 | Dec. 20 | 18 | 10.01 | 3.48 | do | 0.15 | Aug. | | 31 | | | | |
| Provo | Millard | 5,260 | 13 | 46.7 | 94 | July 12 | -25 | do 20 | 13 | 15.97 | 3.56 | July | T. | Nov. | 19.1 | 69 | 142 | 69 | 155 | SW |
| Richfield | Carbon | | 16 | | | | | | 16 | | | | | | | | | | | |
| Scipio | Utah | 7,474 | 4 | | | | | | 4 | 13.07 | 1.74 | May | 0.16 | July | 80.0 | | | | | |
| Seefeld | Carbon | | 4 | | | | | | 4 | 13.04 | 1.81 | Feb. | 0.08 | Aug. | | 43 | | | | |
| Soldier Summit | Utah | | 4 | | | | | | 4 | | | | | | | | | | | |
| Sunnyside | Utah | 5,075 | 16 | 47.4 | 103 | July 23 | -14 | Dec. 19 | 16 | | | | | | | | | | | |
| Thistle | Utah | | 4 | | | | | | 4 | | | | | | | | | | | |
| Trout Creek | Juab | | 4 | | | | | | 4 | | | | | | | | | | | |
| Utah L'ke Pmp. Sta | Utah | | 4 | | | | | | 4 | | | | | | | | | | | |
| Wellington | Carbon | 5,540 | 9 | 40.6 | 86 | July 20* | -29 | Dec. 19 | 9 | | | | | | | | | | | |
| Averages | | | | 47.6 | | | | | | 13.98 | | | | | 49.0 | 53 | 174 | 89 | 103 | SW |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | |
| Aneth | San Juan | 4,800 | 8 | | | | | | 8 | | | | | | | | | | | |
| Beaver | Beaver | | 5 | 46.3 | 92 | July 21 | -10 | Dec. 19* | 5 | 15.04 | 2.34 | May | 0.10 | June | 80.7 | 65 | 167 | 141 | 53 | SW |
| Cedar City | Iron | | 3 | | | | | | 3 | 13.73 | 2.45 | July | 0.15 | do | 40.0 | | | | | ne. |
| Coyote | Garfield | | 7 | | 90 | July 7* | | | 7 | | 1.85 | Oct. | 0.10 | Nov. | | | | | | |
| Enterprise (near) § | Washington | | 3 | | | | | | 3 | 16.97 | 2.56 | Feb. | 0.03 | June | 39.0 | 46 | 168 | 118 | 80 | S |
| Escalante | Garfield | 5,700 | 8 | 47.2 | 92 | July 21 | -10 | Dec. 20 | 8 | 9.84 | 1.61 | Sept. | 0.05 | Mar. | | 29 | 232 | 8 | 116 | |
| Experiment Farm | Washington | | 5 | | 107 | do 21 | -14 | Nov. 29 | 5 | | | | | | | | | | | |
| Frisco | Beaver | 7,318 | 14 | | 98 | do 21 | | | 14 | | 1.87 | Sept. | 0.00 | Nov. | | | | | | |
| Grayson | San Juan | | 4 | 48.2 | 95 | do 4 | -9 | Dec. 25 | 4 | 20.34 | 6.20 | Dec. | T. | April | 65.0 | 38 | 241 | 52 | 70 | S |
| Hite | Garfield | 3,000 | 9 | 58.5 | 106 | Aug. 4 | -17 | do 20* | 9 | 9.33 | 1.83 | do | 0.14 | June | | 43 | 238 | 98 | 30 | SW |
| Kanab | Kane | 4,925 | 8 | | | | | | 8 | | | | | | | | | | | |
| La Sal | San Juan | 7,000 | 8 | | 87 | July 21 | -25 | Dec. 18 | 8 | | | | | | | | | | | |
| Low | Wayne | 7,000 | 16 | 38.3 | 88 | do 4* | -21 | do 19 | 16 | 12.19 | 1.15 | | | | | | | | | |

Monthly and Annual Temperatures for the Year 1908, with Departures from Normal.

| | January. | | February. | | March. | | April. | | May. | | June. | | July. | | August. | | September. | | October. | | November. | | December. | | Annual. | |
|-------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
| Stations. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Rock | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corinne | 28.6 | + 3.8 | 33.8 | + 3.9 | 41.5 | + 4.3 | 53.0 | + 2.5 | 54.6 | + 6.1 | 61.4 | + 9.7 | 77.9 | + 1.3 | 72.3 | + 2.2 | 63.8 | + 1.6 | 47.6 | + 4.1 | 37.6 | + 0.2 | 27.8 | + 1.0 | 50.0 | + 0.1 |
| Farmington | 30.6 | + 2.1 | 35.4 | + 4.5 | 41.4 | + 1.6 | 50.8 | + 2.8 | 51.8 | + 4.5 | 59.6 | + 6.4 | 72.4 | + 0.1 | 68.2 | + 3.5 | 60.2 | + 0.3 | 47.0 | + 2.9 | 36.8 | + 4.2 | 28.2 | + 2.2 | 48.5 | + 1.1 |
| Ft. Duchesne | 9.7 | - 2.0 | 12.2 | - 7.0 | 38.8 | + 3.1 | | | 50.0 | + 6.0 | 59.1 | + 6.5 | 70.5 | + 0.6 | 67.6 | + 2.1 | 57.0 | + 3.8 | 41.4 | + 5.3 | 31.6 | + 1.9 | 9.8 | + 9.5 | | |
| Grantsville, near | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heber | 19.2 | + 1.8 | 26.6 | + 4.2 | 35.4 | + 2.1 | 45.8 | + 1.7 | 48.1 | + 4.3 | 56.0 | + 3.5 | 67.4 | + 1.6 | 63.6 | + 1.3 | 55.4 | + 0.1 | 42.4 | + 2.5 | 32.0 | + 4.1 | 21.6 | + 0.6 | 42.8 | + 0.7 |
| Henefer | 19.8 | + 3.1 | 27.0 | + 3.0 | 34.6 | + 0.3 | 44.6 | + 1.1 | 48.4 | + 3.5 | 54.4 | + 5.0 | 66.2 | + 1.9 | 63.4 | + 0.9 | 55.9 | + 2.1 | 42.2 | + 2.4 | 32.8 | + 2.5 | 24.0 | + 1.0 | 42.8 | + 0.7 |
| Huntsville | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kelton | 24.4 | + 1.2 | 29.4 | + 0.4 | 30.0 | + 1.0 | 50.2 | + 0.3 | 51.4 | + 6.2 | 59.4 | + 10.5 | 73.3 | + 4.3 | 68.4 | + 6.1 | 59.6 | + 1.6 | 43.6 | + 4.0 | 32.0 | + 0.2 | 21.6 | + 6.2 | 46.3 | + 3.1 |
| Logan | 25.2 | + 0.7 | 27.2 | + 2.0 | 38.8 | + 4.1 | 50.4 | + 3.3 | 49.8 | + 5.0 | 56.0 | + 7.7 | 72.3 | + 1.2 | 67.6 | + 3.3 | 60.2 | + 1.1 | 45.0 | + 5.1 | 34.2 | + 3.9 | 23.8 | + 1.5 | 45.9 | + 1.1 |
| Lucin | | | | | 39.5 | | 49.4 | | 50.2 | | 58.5 | | 73.9 | | 69.2 | | 62.7 | | 44.7 | | 35.9 | | 25.2 | | | |
| Marion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meadowville | 19.2 | + 3.7 | 19.4 | + 2.2 | 31.0 | + 2.4 | 43.0 | + 2.2 | 46.2 | + 3.2 | 52.2 | + 4.6 | 64.4 | + 0.01 | 60.6 | + 4.3 | 53.7 | + 0.3 | 39.0 | + 3.2 | 30.3 | + 4.2 | 23.6 | + 1.2 | 40.3 | + 1.1 |
| Millville | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Morgan | 20.0 | | 24.6 | | 36.6 | | 47.7 | | 49.8 | | 55.7 | | 67.7 | | 64.8 | | 55.2 | | 40.4 | | 34.2 | | 24.0 | | 43.4 | |
| Ogden No. 1 | 28.6 | + 1.3 | 33.0 | + 2.8 | 41.0 | + 1.2 | 53.2 | + 2.8 | 53.6 | + 3.5 | 60.6 | + 7.6 | 75.4 | + 1.8 | 69.4 | + 3.6 | 61.3 | + 0.9 | 46.2 | + 4.1 | 38.0 | + 2.3 | 28.0 | + 0.1 | 49.0 | + 1.0 |
| Ogden No. 2 | 32.0 | + 3.4 | 36.4 | + 3.6 | 43.8 | + 2.5 | 55.6 | + 3.2 | 57.2 | + 4.1 | 64.6 | + 7.3 | 79.6 | + 0.4 | 74.1 | + 2.7 | 64.4 | + 1.1 | 48.7 | + 3.1 | 39.6 | + 0.3 | 31.8 | + 0.4 | 52.3 | + 0.4 |
| Park City | 21.7 | + 4.0 | 26.0 | + 0.8 | 31.4 | + 1.5 | 42.4 | + 2.9 | 44.0 | + 5.3 | 51.8 | + 6.9 | 61.0 | + 4.2 | 58.9 | + 4.1 | 53.0 | + 1.4 | 39.6 | + 6.4 | 35.4 | + 0.1 | | | | |
| Promontory | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Randolph | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saltair Beach | 22.1 | | 27.2 | | 34.8 | | 48.1 | | 51.0 | | 60.7 | | 74.1 | | 71.2 | | 62.0 | | 47.2 | | 36.6 | | 27.8 | | 46.9 | |
| Salt Lake City | 31.2 | + 2.4 | 36.2 | + 3.3 | 41.0 | + 0.4 | 52.4 | + 2.3 | 51.8 | + 6.5 | 60.8 | + 7.5 | 75.6 | + 0.6 | 71.0 | + 4.5 | 63.4 | + 1.7 | 48.2 | + 4.0 | 39.8 | + 0.6 | 30.1 | + 2.0 | 50.1 | + 1.7 |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | 25.0 | + 0.8 | 28.2 | + 1.9 | 36.2 | + 0.3 | 47.0 | + 0.9 | 48.2 | + 6.4 | 55.7 | + 5.9 | 68.6 | + 0.4 | 64.2 | + 3.6 | 58.4 | + 0.0 | 43.0 | + 4.6 | 32.8 | + 4.2 | 24.7 | + 0.7 | 44.3 | + 1.9 |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | 17.5 | | 17.8 | | 36.0 | | 47.6 | | 48.9 | | 57.4 | | 68.5 | | 65.0 | | 57.7 | | 40.2 | | 29.1 | | 12.3 | | 41.5 | |
| Tooele | 30.0 | + 2.8 | 34.2 | + 2.3 | 41.2 | + 2.0 | 50.7 | + 2.0 | 51.8 | + 4.2 | 58.4 | + 8.4 | 72.2 | + 1.4 | 68.2 | + 5.4 | 61.7 | + 2.3 | 46.6 | + 3.6 | 38.2 | + 2.0 | 28.9 | + 0.8 | 48.5 | + 1.0 |
| Vernal, near | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodruff | 10.4 | + 7.2 | 15.2 | + 3.4 | 20.2 | + 0.0 | | | | | 51.5 | + 4.1 | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella, near | | | | | | | | | | | 59.5 | | 69.1 | | 65.7 | | 57.6 | | 42.4 | | 35.8 | | 25.5 | | | |
| Black Rock | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Dale | 25.0 | + 2.0 | 29.6 | + 3.4 | | | 48.3 | + 3.1 | 52.0 | + 1.4 | 63.4 | + 0.7 | 72.6 | + 4.4 | 69.2 | + 1.6 | 59.4 | + 0.9 | 44.4 | + 2.9 | 35.3 | + 1.9 | 17.4 | + 6.5 | | |
| Deseret | 29.0 | + 2.3 | 32.8 | + 3.1 | 39.4 | + 0.8 | 46.6 | + 1.3 | 50.4 | + 6.3 | 61.0 | + 0.7 | 74.3 | + 2.6 | 70.0 | + 1.3 | 61.1 | + 0.9 | 45.8 | + 3.3 | 36.4 | + 1.0 | 22.8 | + 2.2 | 47.5 | + 1.0 |
| Dragon | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emery | 27.9 | + 2.6 | 30.5 | + 2.6 | 43.5 | + 8.7 | 51.1 | + 8.9 | 54.2 | + 4.5 | 59.0 | + 0.2 | 69.8 | + 6.3 | 65.2 | + 3.6 | 56.4 | + 1.9 | 44.6 | + 0.4 | 35.9 | + 2.1 | 26.8 | + 0.7 | 47.1 | + 3.0 |
| Fillmore | 35.8 | + 6.2 | 38.8 | + 6.5 | 43.6 | + 1.1 | 52.9 | + 3.4 | 53.2 | + 4.3 | 63.2 | + 4.9 | 75.9 | + 0.9 | 73.0 | + 1.7 | 65.1 | + 2.6 | 49.0 | + 3.3 | 43.1 | + 1.5 | 31.0 | + 1.4 | 52.0 | + 0.7 |
| Garrison | 31.4 | | 32.9 | | 40.8 | | 51.5 | | 50.8 | | 60.0 | | 72.4 | | 72.4 | | 62.1 | | 39.7 | | 37.4 | | 28.2 | | | |
| Government Creek | 29.8 | + 2.4 | 32.0 | + 2.3 | 39.0 | + 1.7 | 48.0 | + 1.4 | 48.6 | + 5.3 | 58.3 | + 6.1 | 72.8 | + 0.3 | 69.9 | + 2.9 | 62.0 | + 0.6 | 44.3 | + 5.2 | 36.1 | + 3.4 | 28.4 | + 0.4 | 47.4 | + 1.1 |
| Green River | 25.1 | + 0.2 | 34.6 | + 3.9 | 40.3 | + 0.8 | 50.8 | + 3.2 | 59.1 | + 4.5 | 70.8 | + 3.0 | 81.0 | + 3.8 | 78.0 | + 0.8 | 66.8 | + 2.1 | 52.6 | + 0.3 | 37.4 | + 3.1 | 20.2 | + 4.8 | 52.6 | + 0.2 |
| Hatch, near | 26.8 | | 25.8 | | 31.1 | | | | 39.6 | | 51.0 | | 64.4 | | 60.3 | | 58.0 | | 43.1 | | 33.8 | | 25.8 | | | |
| Kanosh | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Levan | 27.2 | + 3.4 | 31.5 | + 4.1 | 39.1 | + 2.9 | 48.4 | + 2.0 | 50.0 | + 4.9 | 59.1 | + 5.2 | 71.0 | + 0.6 | 66.8 | + 3.5 | 58.4 | + 2.0 | 44.0 | + 3.3 | 35.6 | + 1.3 | 24.5 | + 0.4 | 46.3 | + 0.7 |
| Manti | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moroni | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mt. Nebo | | | | | 41.4 | + 1.4 | 52.3 | + 2.6 | 53.4 | + 2.6 | 62.0 | + 5.0 | 73.8 | + 0.7 | 71.0 | + 3.1 | 62.6 | + 0.2 | 46.0 | + 3.8 | 36.2 | | 25.2 | + 1.5 | | |
| Mt. Pleasant | 29.4 | + 2.1 | 31.6 | + 1.9 | 38.6 | + 1.4 | | | | | | | | | | | | | | | | | | | | |
| Nephi | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi near | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oak City | 30.0 | | 33.6 | | 40.2 | | 51.2 | | 51.5 | | 63.6 | | 70.3 | | 72.8 | | 65.2 | | 46.2 | | 38.6 | | 26.6 | | 49.6 | |
| Payson | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Provo | | | 36.4 | + 6.4 | 41.4 | | 52.0 | + 2.7 | 52.6 | + 5.1 | 60.4 | + 4.2 | 72.7 | + 0.1 | 68.4 | + 2.3 | 60.3 | + 0.3 | 47.4 | + 1.1 | 39.0 | + 0.2 | 28.8 | + 0.1 | | |
| Richfield | 28.5 | + 2.3 | 31.4 | + 0.0 | 36.8 | + 5.3 | 47.1 | + 0.6 | 49.4 | + 7.7 | 59.0 | + 5.1 | 66.6 | + 4.2 | 65.6 | + 1.8 | 56.9 | + 1.5 | 47.2 | + 0.5 | 39.2 | + 1.2 | 25.3 | + 2.9 | 46.1 | + 2.1 |
| Scipio | 32.1 | + 5.7 | 35.2 | + 5.0 | 39.0 | + 1.2 | 48.0 | + 1.2 | 49.2 | + 4.7 | 57.4 | + 7.0 | 69.0 | + 1.3 | 66.4 | + 2.8 | 57.6 | + 2.1 | 44.0 | + 3.4 | 36.9 | + 0.4 | 25.6 | + 0.2 | 46.7 | + 0.7 |
| Seelfield | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Soldier Summit | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside | | | | | | | | | | | | | | | | | | | | | | | | | | |

Monthly Maximum Temperatures for the Year 1908, with Dates.

* Also on subsequent dates.

Monthly Minimum Temperatures for the Year 1908, with Dates.

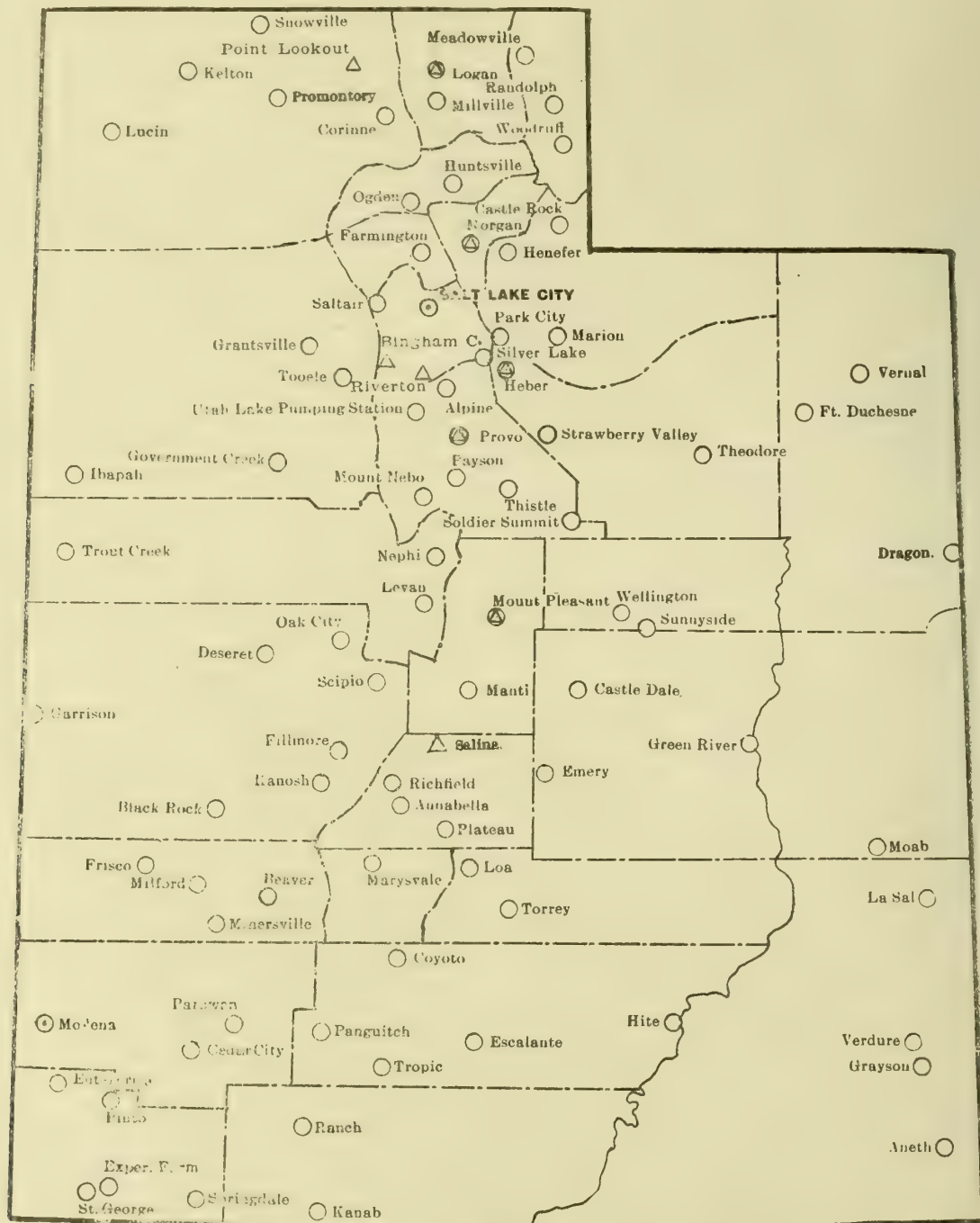
| Stations. | January. | | February. | | March. | | April. | | May. | | June. | | July. | | August. | | September. | | October. | | November. | | December. | | |
|--------------------|----------|-------|-----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|------------|-------|----------|-------|-----------|-------|-----------|-------|--|
| | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | Minimum. | Date. | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Rock | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornine | 4 | 31 | 1 | 1 | 17 | 8 | 22 | 1 | 29 | 10 | 40 | *1 | 50 | *18 | 35 | 31 | 23 | 27 | 25 | *25 | 5 | 27 | -1 | | |
| Farmington | 13 | 31 | 13 | 1 | 14 | 7 | 22 | 1 | 31 | 17 | 30 | 3 | 48 | 5 | 38 | 31 | 27 | 27 | 23 | 23 | 1 | 27 | 1 | | |
| Ft. Duchesne | 14 | 8 | 20 | 15 | 14 | 29 | | | 26 | 5 | 30 | *1 | 41 | 20 | 31 | 31 | 24 | 30 | 17 | 22 | 4 | 30 | -25 | | |
| Grantville, near | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heber | -14 | 7 | 14 | 1 | 6 | *7 | 20 | *3 | 25 | 17 | 28 | 23 | 38 | 18 | 24 | 31 | 20 | 27 | 16 | 22 | -6 | *28 | -16 | | |
| Henefer | 13 | 7 | -8 | 1 | 1 | 7 | 1 | 1 | 22 | 10 | 28 | 23 | 37 | 6 | 23 | 31 | 22 | 26 | 8 | 20 | -7 | *28 | -18 | | |
| Huntsville | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kelton | 2 | 31 | 2 | 1 | 17 | 20 | 14 | 1 | 23 | 10 | 39 | *3 | 45 | *1 | 35 | 26 | 20 | *24 | 18 | 22 | -1 | 29 | -5 | | |
| Lodan | 1 | 31 | 6 | 1 | 19 | 8 | 20 | 2 | 31 | 10 | 37 | 4 | 50 | 17 | 38 | 30 | 27 | 27 | 21 | 23 | -2 | 29 | -6 | | |
| Luein | | | | | 13 | 20 | 19 | *1 | 23 | 10 | 33 | 23 | 42 | 1 | 34 | 31 | 21 | *26 | 14 | 22 | 3 | 29 | -6 | | |
| Marion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meadowville | -6 | 31 | 14 | 1 | 3 | 9 | 9 | 1 | 21 | 10 | 30 | *2 | 39 | 17 | 26 | 31 | 23 | 27 | 18 | 21 | 8 | 25 | -5 | | |
| Millville | | | | | | | | | | | | | | | | | | | | | | | | | |
| Morgan | 10 | 31 | 11 | 10 | 6 | 9 | 1 | 1 | 25 | 10 | 29 | 23 | 41 | 21 | 28 | 31 | 21 | 27 | 10 | 21 | -6 | 29 | -17 | | |
| Ogden No. 1 | 0 | 31 | 4 | 1 | 19 | 8 | 20 | 1 | 33 | *10 | 39 | *1 | 53 | 17 | 42 | *26 | 30 | 26 | 20 | 21 | 10 | 28 | 5 | | |
| Ogden No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Park City | -8 | 31 | 5 | 1 | -1 | 7 | 5 | 1 | 17 | 10 | 26 | 23 | 30 | 6 | 27 | 31 | 8 | 26 | -5 | 24 | 11 | *16 | -18 | | |
| Promontory | | | | | | | | | | | | | | | | | | | | | | | | | |
| Randolph | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saltair Beach | 4 | 31 | 0 | 1 | 14 | 7 | 18 | *1 | 34 | 18 | 39 | 4 | 56 | *2 | 45 | *30 | 32 | 27 | 28 | 23 | 7 | 28 | | | |
| Salt Lake City | 11 | 31 | 13 | 1 | 21 | 7 | 25 | 1 | 30 | 9 | 40 | 3 | 58 | 17 | 44 | 31 | 32 | 27 | 28 | 23 | 10 | 29 | 6 | | |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | 4 | 31 | 8 | 1 | 12 | 20 | 12 | *1 | 20 | 10 | 30 | 28 | 33 | 9 | 28 | 31 | 11 | 27 | 15 | 22 | 0 | 29 | -9 | | |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | 12 | 7 | 17 | 14 | 10 | 7 | 14 | 2 | 25 | 10 | 30 | 4 | 35 | 2 | 26 | 31 | 19 | 27 | 14 | 27 | -3 | 29 | -29 | | |
| Tooele | 5 | 31 | 6 | 1 | 17 | 6 | 20 | 1 | 31 | *9 | 34 | *3 | 53 | 24 | 37 | 31 | 28 | 26 | 22 | 21 | 9 | *28 | 1 | | |
| Vernal, near | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodruff | 22 | 31 | -34 | 1 | 20 | 7 | | | | | 25 | 3 | | | | 31 | 26 | 27 | 20 | *21 | 7 | 29 | -17 | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella, near | | | | | | | | | | | 33 | *4 | 44 | 2 | 31 | 31 | 23 | *26 | 18 | 22 | 5 | *29 | -14 | | |
| Black Rock | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Dale | | *8 | 1 | 14 | | | 14 | 10 | 20 | *11 | 32 | 23 | 48 | *18 | 32 | 30 | 24 | 26 | 15 | *22 | 5 | 29 | -17 | | |
| Deseret | 4 | 10 | 5 | 1 | 2 | 16 | 13 | 2 | 25 | 10 | 31 | 3 | 45 | *19 | 26 | 31 | 24 | 27 | 20 | 22 | 9 | 29 | -16 | | |
| Dragon | | | | | 11 | 20 | 12 | 2 | | | | | | | | | | | | | -2 | 29 | | | |
| Emery | 7 | 9 | 6 | 15 | 15 | 30 | 20 | 26 | 20 | 12 | 30 | 4 | 42 | 24 | 40 | *22 | 22 | 28 | 13 | 24 | 10 | 22 | -8 | | |
| Fillmore | 10 | 31 | 12 | 14 | 18 | *7 | 15 | 2 | 28 | 10 | 34 | 23 | 47 | 19 | 34 | 31 | 26 | 26 | 21 | 22 | 11 | 29 | -1 | | |
| Garrison | -2 | 31 | 10 | *1 | 12 | *7 | 15 | 2 | 25 | 18 | 32 | 24 | 47 | 19 | 32 | 31 | 22 | 29 | 2 | 21 | | | -9 | | |
| Government Creek | 8 | 31 | 2 | 13 | 6 | 6 | 10 | 1 | 25 | 10 | 33 | 4 | 46 | 6 | 42 | *15 | 23 | 26 | 17 | 22 | 3 | 28 | -3 | | |
| Green River | 1 | 17 | 10 | 5 | 18 | 2 | 27 | *2 | 32 | 11 | 43 | *2 | 54 | *3 | 43 | 31 | 30 | *27 | 23 | 30 | 14 | *29 | -0 | | |
| Hatch, near | 4 | 31 | -1 | 13 | 0 | *6 | | | 15 | 8 | 22 | 3 | 41 | 2 | 30 | 30 | | | 6 | 22 | -2 | 29 | -8 | | |
| Kanosh | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lavan | 4 | 31 | 5 | 14 | 9 | 6 | 21 | *2 | 27 | 10 | 32 | 4 | 49 | 19 | 33 | 31 | 25 | *26 | 19 | *21 | 6 | 29 | -14 | | |
| Manti | | | | | | | | | | | | | | | 27 | 31 | 22 | 27 | 17 | 23 | 7 | 29 | -13 | | |
| Moroni | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mt. Nebo | | | | | 12 | *6 | 18 | 2 | 29 | 10 | 36 | *3 | 46 | 1 | 34 | 31 | 28 | 26 | 21 | *21 | 10 | | -8 | | |
| Mt. Pleasant | 1 | 31 | 0 | *13 | 6 | *6 | | | | | | | | | | | | 26 | 16 | 21 | 9 | *28 | | | |
| Nephi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi, near | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oak City | 1 | 31 | 4 | 13 | 14 | 20 | 21 | 3 | 28 | 17 | 33 | 3 | 50 | 17 | 35 | 31 | 32 | 28 | 21 | 23 | 8 | 26 | -11 | | |
| Payson | | | | | | | | | | | | | | | | | | | | | | | | | |
| Provo | | | 7 | 14 | 6 | 6 | 19 | 2 | 28 | 10 | 34 | 8 | 46 | 18 | 32 | 31 | 25 | 27 | 21 | 22 | 2 | 28 | -6 | | |
| Richfield | 0 | *6 | 2 | *1 | 3 | 2 | 5 | 2 | 19 | 20 | 43 | 4 | 31 | 1 | 22 | 31 | 14 | 27 | 10 | 22 | 8 | 30 | -13 | | |
| Scipio | 1 | 8 | -3 | 13 | 3 | 6 | 7 | 2 | 43 | *17 | 29 | 23 | 38 | 19 | 26 | 31 | 20 | 27 | 16 | 23 | 6 | 29 | -25 | | |
| Seelfield | | | | | | | | | | | | | | | | | | | -9 | 22 | -14 | *28 | -26 | | |
| Soldier Summit | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thistle | 4 | 6 | -5 | 5 | 2 | 8 | 21 | 27 | 23 | 4 | 32 | *6 | 35 | *6 | 25 | 30 | 21 | *29 | 12 | *19 | -2 | 27 | -14 | | |
| Trou Creek | 12 | 31 | 5 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Utah Lake Pmp. Sta | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wellington | 0 | *2 | 0 | 16 | 9 | 19 | 10 | 3 | 26 | *9 | 31 | 1 | 45 | *3 | 34 | 31 | 21 | 27 | 14 | *22 | 4 | 29 | -29 | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abeth | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | 2 | 31 | 4 | *13 | 10 | 38 | 15 | 2 | 21 | 20 | 30 | *1 | 41 | 1 | 32 | 31 | 26 | 26 | 10 | 22 | 2 | *26 | -10 | | |
| Cedar City | 14 | 0 | 6 | 14 | 11 | 7 | 17 | 2 | 26 | 9 | 34 | 3 | | | 40 | 31 | 26 | 27 | 15 | 21 | 11 | | -3 | | |
| Coyote | 0 | *7 | 0 | 13 | 0 | 28 | 6 | 1 | 23 | | 28 | 22 | 42 | *2 | 31 | 30 | 19 | 25 | 11 | 22 | | 28 | | | |
| Enterprise, near | | | | | | | | | | | | | | | | | | | | | | | | | |
| Escalante | 6 | 17 | 3 | | 15 | 9 | 18 | 1 | 30 | *3 | 31 | 4 | 46 | 5 | 40 | 31 | 22 | 27 | 18 | | 13 | *17 | -1 | | |
| Experiment Farm | 15 | 7 | 22 | *13 | 25 | 7 | | | | | 37 | 3 | 52 | *2 | 49 | 30 | | 25 | 22 | 14 | 29 | | 16 | | |
| Frisco | | | | | 15 | 7 | 20 | 27 | 24 | 9 | 38 | 3 | 54 | | 42 | 31 | 27 | 11 | 22 | 8 | 29 | | -3 | | |
| Grayson | 9 | 31 | 9 | *1 | 10 | 6 | 26 | 25 | 45 | 8 | 28 | 3 | 50 | 23 | 40 | 31 | 20 | *26 | 12 | 23 | 12 | 30 | -9 | | |
| Hite | 18 | *8 | 21 | 1 | 30 | *6 | 30 | 25 | 40 | *4 | 41 | 2 | 61 | 3 | 51 | 11 | 39 | 27 | 31 | 27 | 23 | 30 | -17 | | |
| Kanab | | | | | | | | | | | | | | | | | | | | | | | | | |
| La Sal | | | | | 16 | *1 | 24 | | 5 | 27 | 4 | 45 | 19 | 4 | 31 | 19 | 27 | 12 | *21 | 17 | 30 | | -5 | | |
| Lon. | 12 | 7 | 18 | 14 | 5 | *7 | 2 | 18 | | 10 | 26 | 6 | 38 | 19 | 28 | 31 | 15 | 27 | 0 | *22 | -8 | 29 | -25 | | |
| Marysville, near | 1 | 7 | 1 | 1 | 3 | *28 | 13 | *26 | 25 | 21 | 30 | *1 | 41 | 20 | 31 | 30 | 27 | 12 | 23 | 1 | 29 | -21 | | | |
| Millford | 1 | 6 | 0 | *1 | 20 | 9 | | | 22 | 9 | 34 | 22 | 45 | 1 | 32 | 30 | 24 | 27 | 28 | *4 | 8 | 29 | -23 | | |
| Minersville | | | | | | | | | | | | | | | | | | | | | | | | | |
| Momb. | 10 | *8 | 12 | 1 | 22 | *8 | 25 | 3 | 34 | *5 | 40 | 2 | 50 | 20 | 42 | 31 | 20 | *27 | 23 | 21 | 17 | 20 | | | |
| Modena | 6 | 31 | 11 | 15 | 4 | 7 | 18 | 2 | 27 | 27 | 32 | 4 | 43 | 1 | 41 | 31 | 28 | 27 | 18 | 23 | 4 | 29 | -17 | | |
| Panguitch | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parowan | 11 | 31 | 9 | 13 | 11 | 7 | 20 | *1 | 25 | 9 | 30 | 1 | | 1 | 38 | 29 | 25 | 28 | 17 | 21 | 6 | 29 | | | |
| Pinto | 4 | 16 | 1 | 15 | 6 | 6 | | | 11 | 9 | 25 | 5 | 36 | 1 | 5 | 31 | 29 | 24 | 27 | 7 | 19 | -4 | 29 | -12 | |
| Ranch | | | 3 | 19 | 20 | *2 | 20 | 9 | 25 | 1 | 34 | 5 | | | 31 | 29 | 18 | 27 | 3 | 19 | 4 | 29 | -14 | | |
| St. George | 20 | 12 | 24 | 14 | 23 | *2 | 30 | 3 | | | | | | | | | | | | | | | | | |

* Also on subsequent dates.

Monthly and Annual Precipitation for the Year 1908, with Departures from Normal.

| Stations. | January. | | February. | | March. | | April. | | May. | | June. | | July. | | August. | | September. | | October. | | November. | | December. | | Annual. | |
|-----------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
| | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alto | 1.06 | 0.30 | 0.35 | 0.00 | 1.33 | 0.55 | 0.34 | -1.80 | 6.99 | 4.72 | 1.47 | 0.92 | 1.00 | 0.42 | 1.21 | 0.77 | 1.46 | 0.81 | 1.99 | 0.25 | 0.37 | 0.00 | 0.30 | 0.00 | 18.98 | 7.27 |
| Alto Rock | 0.75 | 0.31 | 0.35 | 0.00 | 1.08 | 0.70 | 0.00 | 0.00 | 3.00 | 0.00 | 1.80 | 0.00 | 1.48 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.25 | 0.00 | 0.71 | 0.50 | 0.99 | 18.98 |
| Alto | 1.00 | 0.31 | 0.35 | 0.00 | 0.62 | 0.25 | 0.63 | -0.47 | 3.81 | 2.53 | 2.74 | 2.25 | 0.34 | 0.10 | 1.02 | 0.77 | 1.46 | 0.81 | 4.15 | 3.41 | 0.30 | -0.71 | 0.50 | 0.00 | 18.98 | 7.27 |
| Alto | 1.51 | 0.61 | 1.75 | -0.60 | 1.91 | 0.50 | 0.69 | -1.78 | 5.18 | 2.35 | 4.47 | 3.18 | 0.69 | 0.39 | 1.14 | 0.68 | 2.02 | 1.07 | 3.31 | 2.10 | 1.86 | 0.40 | 0.40 | 0.13 | 1.40 | 0.30 |
| Alto | 0.30 | 0.01 | 0.70 | 0.26 | 1.10 | 0.44 | 0.42 | 0.18 | 5.18 | 2.35 | 4.47 | 3.18 | 0.69 | 0.39 | 1.14 | 0.68 | 2.02 | 1.07 | 3.31 | 2.10 | 1.86 | 0.40 | 0.40 | 0.13 | 1.40 | 0.30 |
| Alto | 0.30 | 0.01 | 0.70 | 0.26 | 1.10 | 0.44 | 0.42 | 0.18 | 5.18 | 2.35 | 4.47 | 3.18 | 0.69 | 0.39 | 1.14 | 0.68 | 2.02 | 1.07 | 3.31 | 2.10 | 1.86 | 0.40 | 0.40 | 0.13 | 1.40 | 0.30 |
| Alto | 0.30 | 0.01 | 0.70 | 0.26 | 1.10 | 0.44 | 0.42 | 0.18 | 5.18 | 2.35 | 4.47 | 3.18 | 0.69 | 0.39 | 1.14 | 0.68 | 2.02 | 1.07 | 3.31 | 2.10 | 1.86 | 0.40 | 0.40 | 0.13 | 1.40 | 0.30 |
| Alto | 0.84 | 1.13 | 0.78 | 1.32 | 1.58 | 0.64 | 0.50 | 0.81 | 2.58 | 0.99 | 1.47 | 1.01 | 1.57 | 0.76 | 1.46 | 0.68 | 2.32 | 1.23 | 2.68 | 1.44 | 0.80 | -0.62 | 0.90 | -0.28 | 17.43 | 4.96 |
| Alto | 0.90 | 0.81 | 0.40 | 1.58 | 2.04 | 0.57 | 0.84 | 0.71 | 3.25 | 1.59 | 2.60 | 1.95 | 1.08 | 1.23 | 0.55 | 0.44 | 3.30 | 2.30 | 2.28 | 1.15 | 0.69 | -0.99 | 1.00 | -0.28 | 19.85 | 4.46 |
| Alto | 1.32 | 1.24 | 0.83 | 1.43 | 1.84 | 0.85 | 0.76 | 1.00 | 3.18 | 1.00 | 3.21 | 2.74 | 0.31 | -0.07 | 0.84 | 0.23 | 2.48 | 1.77 | 3.74 | 1.25 | 0.78 | -0.55 | 0.79 | 0.81 | 20.08 | 3.01 |
| Alto | 0.10 | -0.50 | 0.60 | -0.03 | T. | 0.51 | -0.67 | 1.25 | 0.60 | 1.90 | 1.00 | 0.05 | -0.32 | 0.07 | 0.14 | 0.14 | -0.30 | 1.90 | 1.47 | 0.10 | -0.22 | 0.50 | 0.19 | 6.76 | 0.70 | |
| Alto | 0.78 | 0.39 | 0.81 | 0.37 | 1.76 | 0.10 | 0.34 | -1.45 | 3.71 | 1.55 | 2.60 | 2.00 | 0.87 | 0.48 | 1.07 | 0.55 | 1.32 | 0.24 | 4.01 | 1.29 | 1.37 | 0.18 | 0.13 | 0.85 | 18.77 | 4.74 |
| Alto | 0.78 | 0.39 | 0.81 | 0.37 | 1.76 | 0.10 | 0.34 | -1.45 | 3.71 | 1.55 | 2.60 | 2.00 | 0.87 | 0.48 | 1.07 | 0.55 | 1.32 | 0.24 | 4.01 | 1.29 | 1.37 | 0.18 | 0.13 | 0.85 | 18.77 | 4.74 |
| Alto | 0.78 | 0.39 | 0.81 | 0.37 | 1.76 | 0.10 | 0.34 | -1.45 | 3.71 | 1.55 | 2.60 | 2.00 | 0.87 | 0.48 | 1.07 | 0.55 | 1.32 | 0.24 | 4.01 | 1.29 | 1.37 | 0.18 | 0.13 | 0.85 | 18.77 | 4.74 |
| Alto | 0.92 | 0.88 | 1.17 | 0.67 | 2.01 | 0.54 | 0.25 | -1.61 | 2.30 | 0.71 | 2.66 | 2.05 | 0.20 | -0.35 | 1.76 | 1.12 | 2.07 | 1.24 | 4.25 | 3.23 | 0.50 | -0.94 | 0.92 | 0.00 | 18.98 | 4.43 |
| Alto | 0.68 | -0.72 | 0.85 | 0.38 | 1.65 | -0.38 | 0.59 | -1.38 | 3.66 | 1.67 | 2.43 | 1.85 | 0.46 | 0.04 | 0.81 | 0.14 | 1.73 | 0.73 | 4.20 | 2.74 | 0.80 | -0.78 | 0.42 | -0.59 | 18.37 | 2.94 |
| Alto | 0.81 | 0.61 | 0.61 | 0.00 | 2.80 | 0.00 | 0.78 | 0.00 | 4.10 | 0.00 | 1.81 | 0.00 | 1.30 | 0.43 | 0.43 | 0.00 | 2.22 | 0.00 | 3.64 | 1.03 | 1.03 | 0.00 | 1.20 | 0.00 | 20.88 | 0.00 |
| Alto | 0.68 | 1.40 | 1.35 | -0.51 | 1.01 | 2.10 | 0.39 | -1.85 | 4.92 | 1.88 | 3.28 | 2.87 | T. | -0.28 | 0.55 | -0.05 | 2.42 | 1.73 | 4.94 | 3.92 | 2.05 | 1.04 | 0.97 | -0.46 | 22.56 | 4.79 |
| Alto | 0.87 | 0.66 | 0.90 | 0.64 | 1.59 | 0.13 | 0.35 | -1.05 | 5.02 | 3.38 | 3.11 | 2.50 | 0.04 | -0.19 | 0.69 | 0.22 | 2.15 | 1.47 | 4.06 | 2.75 | 1.27 | 0.11 | 0.39 | -1.23 | 20.44 | 6.59 |
| Alto | 1.05 | 0.64 | 1.00 | -1.87 | 2.20 | 1.95 | 0.45 | -1.75 | 1.57 | 0.19 | 1.59 | 1.43 | 1.80 | 1.34 | 0.69 | -0.09 | 2.34 | 1.63 | 1.53 | 0.90 | 0.62 | -1.48 | 0.00 | 0.00 | 8.82 | 0.00 |
| Alto | 0.70 | -0.28 | 0.60 | 0.22 | 1.25 | 0.51 | 0.50 | 0.00 | 1.71 | 0.00 | 1.74 | 0.00 | 0.05 | 0.00 | 0.09 | 0.00 | 1.10 | 0.00 | 1.10 | 0.00 | 0.40 | 0.00 | 0.40 | 0.00 | 12.88 | 0.00 |
| Alto | 0.34 | 0.37 | 0.70 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 2.15 | 0.00 | 1.57 | 0.00 | 2.16 | 0.00 | 1.66 | 0.00 | 1.74 | 0.00 | 0.50 | 0.00 | 0.40 | 0.00 | 12.88 | 0.00 |
| Alto | 0.89 | 1.16 | 1.16 | 1.20 | 1.20 | 0.26 | 0.00 | 0.00 | 4.08 | 0.00 | 1.89 | 0.00 | 0.15 | 0.00 | 0.78 | 0.00 | 2.40 | 0.00 | 2.73 | 0.00 | 1.53 | 0.00 | 0.95 | 0.00 | 17.93 | 0.00 |
| Alto | 0.63 | -0.72 | 1.24 | -0.20 | 1.79 | -0.21 | 0.80 | -1.46 | 5.76 | 3.81 | 1.81 | 1.04 | 0.25 | -0.29 | 1.39 | 0.61 | 2.72 | 1.87 | 2.07 | 0.67 | 1.91 | 0.49 | 0.45 | -0.88 | 20.82 | 4.73 |
| Alto | 0.30 | -0.94 | 0.70 | -0.21 | 0.65 | 0.91 | 0.40 | -0.86 | 3.07 | 1.78 | 1.84 | 1.36 | 0.35 | -0.02 | 0.69 | 0.46 | 0.42 | -0.13 | 2.90 | 1.87 | 0.40 | -0.52 | 0.30 | -0.71 | 12.02 | 1.17 |
| Alto | 0.52 | 0.88 | 0.88 | 0.26 | 0.96 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.65 | 0.00 | 0.38 | 0.00 | 1.09 | 0.00 | 1.17 | 0.00 | 1.03 | 0.00 | 0.25 | 0.00 | 0.85 | 0.00 | 8.59 | 0.00 |
| Alto | 0.97 | 0.11 | 1.34 | 0.23 | 1.39 | -0.64 | 0.65 | -1.12 | 5.48 | 3.13 | 1.29 | 0.72 | 0.65 | 0.23 | 2.10 | 1.47 | 3.85 | 3.24 | 2.48 | 1.21 | 2.34 | 0.83 | 1.01 | 0.11 | 23.50 | 9.30 |
| Alto | 0.85 | 0.25 | 0.25 | -0.67 | 1.50 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.30 | 1.80 | 0.64 | 2.46 | 1.71 | 0.55 | -0.13 | 0.80 | 0.32 | 20.82 | 4.73 |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alto | 1.12 | 0.00 | 0.62 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 1.16 | 0.00 | 0.39 | 0.00 | 1.27 | 0.00 | 0.82 | 0.00 | 1.00 | 0.00 | 1.56 | 0.00 | 0.05 | 0.00 | 0.48 | 0.00 | 10.56 | 3.31 |
| Alto | 0.70 | 0.36 | 1.50 | -0.73 | 0.86 | -0.46 | 0.12 | 1.59 | 0.41 | 0.26 | 0.00 | 1.17 | -0.67 | 0.80 | -0.05 | 0.15 | 1.25 | 0.43 | 0.70 | 0.19 | 0.55 | -0.30 | 0.80 | 0.70 | 10.56 | 3.31 |
| Alto | 0.11 | -0.31 | 0.80 | -0.13 | 1.00 | -0.11 | 0.40 | -0.57 | 1.10 | -0.04 | 1.22 | 0.91 | 0.62 | 0.52 | 0.57 | 0.08 | 2.00 | 1.34 | 2.15 | 1.70 | 0.25 | -0.15 | 0.34 | -0.15 | 10.56 | 3.31 |
| Alto | 0.10 | 0.06 | 0.80 | -0.05 | T. | -0.22 | 0.20 | 0.12 | 0.20 | -0.22 | T. | -0.43 | 0.77 | 0.63 | 2.00 | 1.25 | 1.05 | 0.46 | 1.02 | 0.66 | 0.40 | 0.25 | 0.40 | 0.30 | 6.94 | 2.81 |
| Alto | 1.01 | -0.19 | 0.87 | -0.64 | 0.36 | 1.64 | 0.50 | -1.31 | 4.15 | 2.69 | 1.13 | 0.54 | 1.46 | -0.94 | 1.38 | 0.62 | 2.02 | 1.06 | 3.31 | 2.48 | 0.69 | -0.15 | 1.55 | 0.50 | 18.43 | 4.90 |
| Alto | 0.25 | 0.00 | 0.80 | 0.16 | 0.10 | 0.10 | 0.10 | 0.10 | 0.47 | 0.00 | 0.10 | 0.00 | 0.65 | 0.00 | 0.56 | 0.00 | 2.01 | 0.00 | 1.41 | 0.00 | 0.33 | 0.00 | 0.26 | 0.00 | 7.19 | 0.00 |
| Alto | 0.91 | -0.02 | 1.13 | -0.29 | 1.86 | -0.71 | 0.65 | -0.75 | 3.07 | 1.25 | 1.32 | 1.15 | 0.62 | -0.35 | 0.46 | -0.78 | 3.22 | 2.59 | 1.68 | 1.21 | 1.40 | 0.37 | 0.72 | 0.09 | 17.04 | 4.46 |
| Alto | 0.30 | 0.13 | 0.50 | -0.17 | 0.70 | 0.39 | 0.00 | 0.44 | 0.34 | -0.29 | T. | -0.07 | 0.70 | -0.53 | 1.50 | 0.86 | 1.37 | 0.72 | 0.40 | -0.25 | T. | -0.67 | 0.65 | -0.49 | 6.46 | 1.73 |
| Alto | 1.37 | 0.70 | 3.76 | 0.92 | 0.71 | 0.00 | 0.00 | 0.00 | 13.58 | 0.00 | 0.95 | 0.00 | 1.14 | 0.00 | 0.97 | 0.00 | 0.27 | 0.00 | 0.74 | 0.00 | 0.19 | 0.00 | T. | 0.00 | 14.58 | 0.00 |
| Alto | 0.89 | 1.21 | 0.67 | 0.58 | 0.58 | 0.31 | 0.30 | 3.69 | 0.00 | 0.00 | 0.58 | 0.00 | 2.47 | 1.86 | 0.00 | 0.00 | 2.13 | 0.00 | 3.50 | 0.00 | 0.71 | 0.00 | 1.11 | 0.00 | 19.40 | 0.00 |
| Alto | 0.82 | 0.54 | 1.19 | 0.40 | 1.00 | -1.13 | 0.31 | 1.30 | 4.35 | 2.74 | 1.15 | 0.63 | 1.06 | -0.45 | 1.55 | 0.79 | 2.89 | 1.65 | 1.87 | 0.58 | 0.63 | -0.30 | 1.40 | -0.26 | 18.22 | 2.91 |
| Alto | 0.21 | 0.00 | 1.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 2.81 | 0.00 | 2.12 | 1.99 | 1.06 | -0.56 | 1.39 | 0.95 | 2.22 | 1.21 | 2.00 | 1.19 | 0.50 | -0.36 | 0.75 | 0.01 | 18.22 | 2.91 |
| Alto | 0.21 | 0.00 | 1.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 2.81 | 0.00 | 2.12 | 1.99 | 1.06 | -0.56 | 1.39 | 0.95 | 2.22 | 1.21 | 2.00 | 1.19 | 0.50 | -0.36 | 0.75 | 0.01 | 18.22 | 2.91 |
| Alto | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | |

CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS.



Key to Symbols.

- Meteorological observations. (Regular Weather Bureau stations.)
- Meteorological observations. (Sub stations.)
- △ Display or distribution of forecasts.

CORRECTIONS FOR ANNUAL SUMMARY FOR YEAR 1907.

Pages 101 and 102:—Hite, mean temperature should be 61.0° instead of 60.9° . Page 102:—Garrison, mean temperature for January should be 26.8° instead of 36.8° . Wellington, mean temperature for May should be 54.5° instead of 54.2° ; departure, -1.7° instead of -2.0° . Cedar City, mean temperature for October should be 53.1° instead of 53.0° . Coyoto, mean temperature for May should be 55.7° instead of blank. Hite, mean temperature for March should be 54.2° instead of 53.7° ; departure, $+3.8^{\circ}$ instead of $+3.3^{\circ}$; annual departure should be $+1.3^{\circ}$ instead of $+1.2^{\circ}$. Plateau, mean temperature for November should be 34.8° instead of 34.4° ; departure -0.4° instead of -0.8° . St. George, mean temperature for October should be 63.6° instead of 63.3° ; departure, -1.4° instead of $+4.1^{\circ}$. Springdale, mean temperature for October should be 63.4° instead of 63.6° ; departure should be blank instead of $+4.4^{\circ}$.

TOTAL PRECIPITATION, YEAR, 1908.



SCALE OF SHADES - IN INCHES.



COOPERATIVE OBSERVERS.

| Stations. | Observers. | Stations. | Observers. | Stations. | Observers. |
|------------------------|-------------------------|-------------------------|--------------------------|-----------------------|-----------------------|
| NORTHERN. | | MIDDLE. | | SOUTHERN. | |
| Alpine..... | T. B. Whitby. | Annabella, near..... | J. W. Fairbanks. | Aneth..... | Miss S. Hubert. |
| Castle Rock..... | David Moore. | Black Rock..... | A. H. Cassell. | Beaver..... | James Connell. |
| Corinne..... | Agent So. Pacific R. R. | Castle Dale..... | James Jeffs. | Cedar City..... | J. M. Foster. |
| Farmington..... | Charles Boylin. | Deseret..... | S. W. Western. | Coyote..... | Mrs. E. Clayton. |
| Ft. Duchesne..... | Post Surgeon. | Dragon..... | H. J. Cooper. | Enterprise, near..... | John Day. |
| Grantsville, near..... | A. J. Fraser. | Emery..... | H. C. Wickman. | Escalante..... | Geo. H. Barney. |
| Heber..... | John Crook. | Fillmore..... | J. J. Starley. | Experiment Farm..... | Joseph T. Atkins. |
| Heifer..... | William Brewer. | Garrison..... | E. M. Smith. | Frisco..... | E. R. Smyth. |
| Huntsville..... | Lars Petersen. | Government Creek..... | Walter James. | Grayson..... | Joseph A. Lyman. |
| Kelton..... | Agent So. Pacific R. R. | Green River..... | J. H. Fritz. | Hite..... | J. P. Hite. |
| Logan..... | Agricultural College. | Hapah, near..... | E. S. Gamwell. | Kanab..... | W. J. F. McAllister. |
| Lucin..... | C. J. Burke. | Kanosh..... | Geo. Crane. | La Sal..... | Mrs. G. W. Carpenter. |
| Marion..... | J. Woolstenhulme. | Levan..... | William Brown. | Loa..... | Michael Hansen. |
| Meadowville..... | J. S. Moffat. | Manti..... | J. M. Anderson. | Marysville, near..... | John W. Henry. |
| Millville..... | Fred Yeates. | Moroni..... | B. F. Eliason. | Milford..... | C. M. Temple. |
| Morgan..... | W. Visick. | Mt. Nebo..... | D. C. Walkey. | Minersville..... | Geo. Roberts, Sr. |
| Ogden No. 1..... | Enoch Farr. | Mt. Pleasant..... | Miss Jane Martin. | Moab..... | Henry Crouse. |
| Ogden No. 2..... | W. H. Chevers. | Nephi..... | A. Madsen. | Panguitch..... | F. C. Syrett. |
| Park City..... | Prof. A. D. Griffin. | Nephi near..... | S. R. Boswell. | Parowan..... | Alex. Matheson. |
| Promontory..... | F. C. Houghton. | Oak City..... | J. Finlinson. | Pinto..... | J. H. Harrison. |
| Randolph..... | Wm. Rex. | Payson..... | D. L. Coombs. | Ranch..... | J. W. Seaman. |
| Saltair Beach..... | E. J. Bench. | Provo..... | James A. Oliver. | St. George..... | J. G. Bleak. |
| Silver Lake..... | N. J. Ferheralf. | Richfield..... | J. J. Jensen. | Springdale..... | Wm. Flanigan. |
| Snowville..... | Joseph Robbins. | Scipio..... | Thomas Memmott. | Teasdale..... | Josiah Shurtz. |
| Strawberry Valley..... | S. A. Chivens. | Scofield..... | O. E. Jorgensen. | Tropic..... | E. P. Bolton. |
| Theodore..... | M. M. Smith. | Soldier Summit..... | Agent Rio Grande R. R. | Verdure..... | J. H. Barton. |
| Tooele..... | E. A. Bonelli. | Sunnyside..... | Henry Cullum. | | |
| Vernal, near..... | Joab Collier. | Thistle..... | Agt. Rio Grande W. R. R. | | |
| Woodruff..... | James Stuart. | Trout Creek..... | Frank Parker. | | |
| | | Utah Lake Pmp. Sta..... | W. A. Knight. | | |
| | | Wellington..... | Melville Branch. | | |

DISPLAYMEN.

| Stations. | Displaymen. | Stations. | Displaymen. | Stations. | Displaymen. |
|---------------------------|-----------------------------|----------------------|---------------------|------------------------|-----------------------|
| Bingham Canyon *(40)..... | Mgr. R. M. B. Telephone Co. | Mt. Pleasant..... | Thomas Braby. | Salina..... | Salina Mercantile Co. |
| Calders Park *(200)..... | W. J. Butterworth, P. M. | Point Lookout..... | C. E. Foxley. | Utah Penitentiary..... | The Warden. |
| Heber *(90)..... | C. H. Ohlweiler. | Provo *(321)..... | Postmaster. | | |
| Logan *(17)..... | Mgr. R. M. B. Telephone Co. | Riverton *(200)..... | A. E. Walker, P. M. | | |

* Figures in parentheses indicate number of persons and postoffices supplied daily with the forecasts.

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UN

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JANUARY, 1909

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

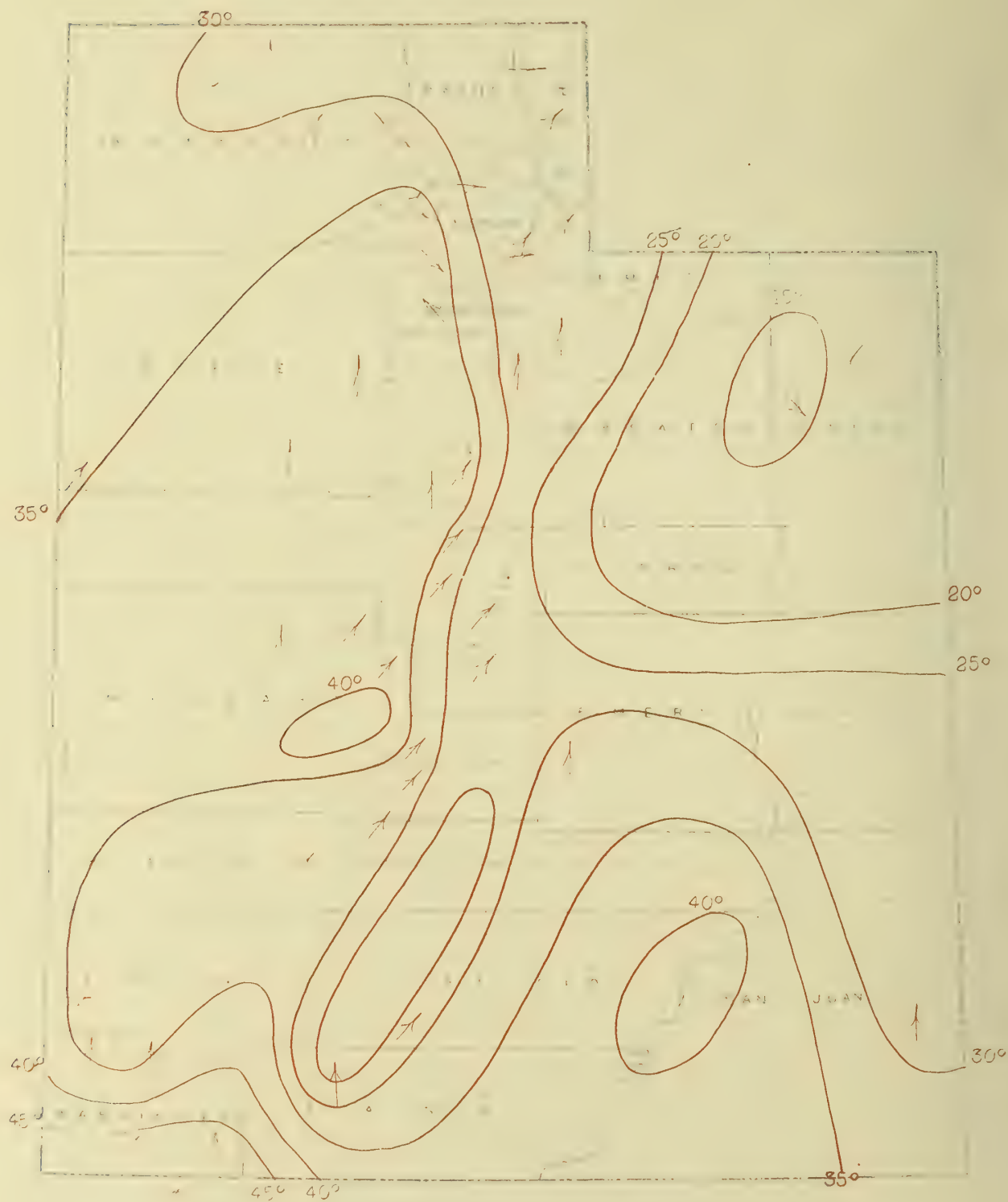
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

FEBRUARY 16, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, JANUARY, 1900.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. XI. SALT LAKE CITY, UTAH, JANUARY, 1909. No. 1

GENERAL SUMMARY.

New records of excessive temperature and precipitation were established for January thruout the State, the abnormalities extending with a fair degree of uniformity to all portions of the section. The temperature average for the State was several degrees above the average for the past 18 years, and was 0.3° higher than the highest average previously recorded, which was in 1900. The State precipitation average for this month was more than double the average for the past 18 years, and was 0.58 inch greater than the greatest previous record, which was established two years ago.

The temperature distribution presented the usual regional characteristics, with lowest records in the Wasatch and Uinta mountains, and highest in Washington county and along the Colorado river. The maximum temperatures were almost invariably recorded between the 15th and 19th of the month, and the minimum temperatures occurred about equally on the 11th and the 29th.

The precipitation record also exhibits the usual excesses in the mountain districts, tho the north-central portions of the State received the excessively heavy snows, which brought the State averages above the normal. The southeastern slope of the Wasatch mountains toward the Colorado river and the region to the westward of the Great Salt Lake, received very little precipitation. The distribution thruout the month was quite uniform, there being scarcely a day without precipitation in some part of the State, tho the opening and closing days of the month were generally clear.

High winds were very prevalent, occurring generally thruout the State with all the heavier precipitation storms. Thunderstorms occurred at scattered localities but were not numerous.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 31.9°, which was 5.0° above the normal.

The highest local monthly mean was 46.2° at St. George, and the lowest was 10.2° at Ft. Duchesne.

The highest temperature recorded was 68° at St. George on

the 6th, 28th and 31st, and the lowest, —32° at Scofield on the 29th giving a range for the section of 100°.

The greatest local monthly range was 62° at Scofield, and the least, 23° at Logan.

PRECIPITATION.

The average precipitation, determined from the reports of 67 stations, was 2.88 inches, which was 1.58 inches above the normal for the State.

The greatest monthly amount was 18.38 inches at Scofield; and the least monthly amount was a 0.05 inch at Green River.

The greatest amount of precipitation in any 24 consecutive hours was 3.20 inches at Scofield, on the 22d.

There was an average of 8 days with 0.01 inch or more of precipitation; 11 over the northern, 8 over the middle, and 5 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4886; at Modena, 8860; at Grand Junction, Colo., 3002; and at Pocatello, Idaho, 8153.

The maximum velocity at Salt Lake City was 40 miles per hour from the west on the 22d; at Modena, 46 miles from the southwest on the 21th; at Grand Junction, Colo., 28 miles from the northwest on the 28th; and at Pocatello, Idaho, 44 miles from the southwest on the 28th.

CLOUDINESS.

The average number of clear days for the section during the month was 10; partly cloudy days, 9; cloudy days, 12.

According to the records of automatic sunshine recorders, Salt Lake City had 43 per cent; Modena 43 per cent; Grand Junction, Colo., 31 per cent; and Pocatello, Idaho, 38 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 63 per cent, the lowest observed reading being 31 per cent on the 30th; at Modena, 76 per cent, the lowest observed reading being 46 per cent on the 30th; at Grand Junction, Colo., 63 per cent, the lowest observed reading being 51 per cent on the 11th and 30th; and at Pocatello, Idaho, 72 per cent, the lowest observed reading being 26 per cent on the 30th.

MISCELLANEOUS PHENOMENA.

Stations and dates of occurrence

Halo, solar.—Henefer, 24.

Earthquake.—Sunnyside, 28, at 11:30 p. m.

Fogs, dense.—Grayson, 17; Salt Lake City, 27; Sunnyside, 18, 20.

Coronas, lunar.—Government Creek, 28, 29; Henefer, 1; Marysville, 1, 31.

Halos, lunar.—Modena, 8, 9, 29; Salt Lake City, 1; Tropic, 1, 7, 8, 26, 29.

Fog, light.—Deseret, 12, 27; Henefer, 17; Randolph, 1; Sunnyside, 5, 22; Theodore, 4, 5, 16, 17; Tropic, 18, 19; Vernal, 5, 6, 16-19.

Hail.—Castle Rock, 3, 9; Farmington, 9, 14; Ibapah, 9; Marion, 9; Marysvale, 2, 9, 13, 21; Meadowville, 9; Nephi, 21; Ogden, 3, 9; Pinto, 23; Salt Lake City, 9; Scofield, 10, 13; Tooele, 9, 22; Tropic, 23.

Sleet.—Castle Rock, 5; Heber, 5-8; Henefer, 3, 12; Huntsville, 5, 6, 8, 13, 14, 21; Marion, 5, 6, 9, 13, 20-22; Marysvale, 21; Meadowville, 5, 6, 13; Moroni, 21, 22; Payson, 10, 22; Pinto, 21; Scofield, 13, 20-22; Theodore, 6; Tooele, 23; Vernal, 21.

Thunderstorms.—Castle Rock, 3, 9; Farmington, 9; Huntsville, 3; Ibapah, 9, 21; Levan, 21; Meadowville, 9; Morgan, 9, 14, 20, 22; Moroni, 21; Nephi, 21; Randolph, 12-14; Salt Lake City, 9, 14, 22; Snowville, 3; Tooele, 9; Utah Lake Pumping Station, 14.

High Winds.—Deseret, 3, 5-9, 13, 14, 19, 21, 25; Enterprise, 20, 21; Garrison, 1-9, 11-13, 18-21, 30; Government Creek, 3-15; Henefer, 3, 6, 8, 9, 14, 22, 28; Ibapah, 4-8, 13; Levan, 9, 13; Marion, 3, 9, 10, 13, 14, 30; Marysvale, 5, 6, 8, 9, 14, 21, 22; Meadowville, 3-6, 13, 23, 28; Modena, 6-9, 13, 14, 19, 21-23, 25, 27; Morgan, 14, 29, 30; Mt. Nebo, 3, 6-9; Nephi, 9, 10; Panguitch, 28, 30; Pinto, 6-8; Richfield, 6-9, 18, 21; Saltair Beach, 6-9, 13, 14; Salt Lake City, 3, 6-9, 13, 15, 22, 23, 28, 31; Tooele, 4-8, 13, 14, 22.

LATE REPORTS.

For December: Strawberry Valley, mean temperature, 23.2°; highest, 43° on the 26th, 30th and 31st; lowest, —4° on the 18th; greatest daily range, 35°; total precipitation, (incomplete) 1.40 inches; greatest in 24 hours, 0.50 inches; total snowfall, 14.0 inches; number rainy days, 4; clear days, 22; partly days, 0; cloudy days, 9.

WATER STAGES.

The level of Great Salt Lake on January 1st was 3.4 feet above zero; on January 15th, 3.5 feet above, and on February 1st, 3.9 feet above.

COMPARATIVE STATE DATA FOR JANUARY.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1892 | 24.4 | 68 | —19 | 0.85 |
| 1893 | 26.0 | 71 | —23 | 0.94 |
| 1894 | 21.9 | 63 | —24 | 1.18 |
| 1895 | 23.0 | 60 | —25 | 1.67 |
| 1896 | 28.4 | 66 | —17 | 0.81 |
| 1897 | 26.1 | 68 | —24 | 1.53 |
| 1898 | 16.9 | 69 | —34 | 1.07 |
| 1899 | 27.9 | 70 | —21 | 1.14 |
| 1900 | 31.6 | 70 | —10 | 0.43 |
| 1901 | 28.2 | 64 | —26 | 0.69 |
| 1902 | 26.5 | 74 | —38 | 0.71 |
| 1903 | 27.0 | 66 | —21 | 1.40 |
| 1904 | 23.3 | 68 | —23 | 0.83 |
| 1905 | 28.9 | 71 | —22 | 0.86 |
| 1906 | 25.3 | 70 | —39 | 1.60 |
| 1907 | 28.0 | 66 | —20 | 2.30 |
| 1908 | 27.8 | 80 | —22 | 0.79 |
| 1909 | 31.9 | 68 | —32 | 2.88 |

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF JANUARY, 1909.

The snowfall for the month of January was generally above the normal, being abnormally heavy over the northern section. Thruout the State it was accompanied by an unusual amount of rain. At the close of the month the depth of snow in the mountain districts averaged about 5 feet, the least depth recorded being 2 inches, and the greatest, 40 feet. Nearly all stations reported that the snow was well packed and solid; therefore a plentiful supply of irrigation water is assured.

GREAT SALT LAKE WATERSHED.

Promontory, the snow is well packed. Lucin, what snow remains is well packed. Snowville, in the hills the snow is drifted. Kelton, the snow is packed. Millville, the snow is well packed and solid. Logan, the snow is well drifted and, owing to frequent rains and thawing and freezing conditions, is very solid. Hyrum, the snow that fell early in the season is very solid, while that which occurred this month is loose. Meadowville, the well drifted snow is packed very solid. Randolph, for the most part, the snow is packed well. Woodruff, the snow is solid and well drifted. Huntsville, the snow is compact. Clearfield, the snow is drifted somewhat, is well packed, and in good condition to be of service during the coming season. Henefer, the snow is solid and well drifted. Granger, what little snow remains is well drifted. Silver Lake, the snow is drifted and fairly well packed. Ibapah, the snow is light and dry, and neither packed nor drifted. Provo, the snow is packed solid and fairly well drifted. Lake Shore, in the hills the snow is well packed. Theodore, the snow is well drifted and packed.

SEVIER LAKE WATERSHED.

Moroni, owing to heavy rain and sleet, the snow is very compact, and lies in drifts. Beaver, the well packed snow is drifted considerably. Milford, the snow is drifted very little. Scofield, the snow is well packed and very solid. All ravines are drifted full. Levan, owing to rain and high wind the snow is well packed and drifted. Pinto, the snow is not drifted to any great extent. Richfield, the snow is about of the consistency of ice. Annabella, as the snow was wet and heavy when it fell, and accompanied by a high wind, it is well packed and drifted. Parowan, the snow is solid and drifted. Oak City, the snow is well drifted and is solid.

GREEN AND COLORADO RIVERS WATERSHED.

Ranch, the snow which was accompanied by rain when it fell, is packed very solid, and will keep well. Lawrence, the snow lies in drifts. Escalante, the snow is deep, but very little drifted. Panguitch, the snow is compact. Coyoto, the snow is dry and undrifted. Tropic, owing to the thawing and freezing conditions which have prevailed, the snow is very well packed. Garfield, the snow is packed and solid.

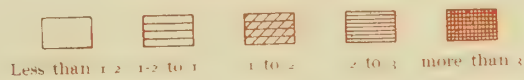
CLIMATOLOGICAL DATA, JANUARY, 1909.

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | | Sky | | | | Prevailing direction of wind. | Observers. |
|-----------------|------------|------------------|--------------------------|-------------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--|--------------------|----------------------------|---------------------|-------------------------------|----------------------------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelting. | Days with or more than one inch of snow. | Number clear days. | Number partly cloudy days. | Number cloudy days. | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 13 | | | | | | | | | | | | | | | | | T. B. Whitby. |
| Castle Rock | Summit | | 6 | | | | | | | | | | | | | | | | | David Moore. |
| Crine | Boxelder | 4,240 | 30 | 31.6 | + 8.8 | 57 | *17 | 3 | 30 | 35 | 4.38 | + 3.08 | 0.80 | 38.5 | 14 | 7 | 12 | 12 | SW. | Agent So. Pacific R. R. |
| Drumington | Davis | 4,267 | 9 | 36.7 | + 7.9 | 58 | 17 | 0 | *11 | 30 | 3.11 | + 1.79 | 0.80 | 4.0 | 8 | 3 | 15 | 13 | NW. | Charles Boylin. |
| Duchesne | Uinta | 5,000 | 21 | 10.2 | - 1.6 | 42 | 9 | -24 | 30 | 40 | 2.40 | + 2.02 | 0.90 | 8.0 | 10 | 12 | 2 | 17 | NW. | Post Surgeon. |
| Elmville (near) | Tooele | | 4 | | | | | | | | | | | | | | | | | A. J. Fraser. |
| Elmer | Wasatch | 5,606 | 16 | 27.4 | + 6.3 | 50 | *15 | -24 | 11 | 54 | 8.81 | + 6.77 | 2.20 | 16.0 | 13 | 6 | 6 | 19 | S. | John Crook. |
| Elmer | Summit | 5,301 | 10 | 26.8 | + 4.4 | 53 | *17 | -21 | 11 | 43 | 6.85 | + 3.83 | 1.05 | 19.5 | 17 | 11 | 6 | 14 | W. | William Brewer. |
| Elmville | Weber | 5,100 | 14 | | | | | | | | | | | | | | | | | Lars Petersen. |
| Elm | Boxelder | 4,230 | 31 | 29.2 | + 6.8 | 48 | *6 | -2 | 29 | 31 | 1.35 | + 0.72 | 0.50 | 10.0 | 6 | 6 | 21 | 4 | SW. | Agent So. Pacific R. R. |
| Elm | Cache | 4,597 | 18 | 29.8 | + 5.7 | 48 | *10 | -2 | 28 | 23 | 2.97 | + 1.53 | | | | | | | | Agricultural College. |
| Elm | Boxelder | 4,597 | 5 | 33.2 | | 56 | 16 | -2 | 18 | 33 | 9.14 | | 0.05 | 0.3 | 6 | | | | | C. J. Burke. |
| Elm | Summit | | 5 | | | | | | | | | | | | | | | | | J. Woolstenhulme |
| Elmville | Rich | 6,200 | 10 | 26.8 | + 4.6 | 47 | 19 | -6 | 29 | 28 | 8.00 | + 5.69 | 2.70 | 8.0 | 12 | 15 | 0 | 16 | W. | J. S. Moffat. |
| Elmville | Cache | 4,848 | 14 | | | | | | | | | | | | | | | | | Fred Yeates. |
| Elm | Morgan | 5,080 | 6 | 30.0 | + 7.9 | 52 | 18 | -10 | 29 | 43 | 10.59 | + 8.26 | 1.36 | 23.0 | 14 | 6 | 7 | 18 | NW. | W. Visick. |
| Elm No. 1 | Weber | 4,310 | 8 | 34.0 | + 6.8 | 52 | 18 | -6 | 11 | 28 | 4.05 | + 2.45 | 0.79 | 11.0 | 13 | 9 | 7 | 15 | NW. | Enoch Farr. |
| Elm No. 2 | Weber | 4,310 | 39 | 38.3 | - 0.5 | | | | | | | | | | | | | | | W. H. Chevers. |
| Elm City | Summit | 7,800 | 12 | | | | | | | | | | | | | | | | | Prof. A. D. Griffin |
| Elm City | Boxelder | | 2 | | | | | | | | | | | | | | | | | F. C. Houghton. |
| Elm City | Rich | | 6 | | | | | | | | | | | | | | | | | Wm. Rex. |
| Elm City | Salt Lake | | 6 | 36.4 | + 10.3 | 55 | 8 | 10 | 11 | 25 | 2.04 | + 0.75 | 0.42 | 5.5 | 13 | | | | | E. J. Bench. |
| Elm City | Salt Lake | 4,366 | 35 | 38.2 | + 9.6 | 56 | 15 | 8 | 11 | 25 | 2.70 | + 1.35 | 0.53 | 6.9 | 15 | 9 | 7 | 15 | SE. | Section Center. |
| Elm City | Salt Lake | | 3 | | | | | | | | | | | | | | | | | N. J. Ferhaff. |
| Elm City | Boxelder | 4,360 | 19 | 28.5 | + 4.7 | 54 | 18 | -8 | 29 | 46 | 2.17 | + 0.91 | 0.60 | 12.0 | 12 | 5 | 12 | 14 | S. | Joseph Robbins. |
| Elm City | Wasatch | | 5 | | | | | | | | | | | | | | | | | U. S. Reclamation Service. |
| Elm City | Wasatch | 5,507 | 4 | 16.9 | | 49 | 6 | -21 | 30 | 39 | 1.15 | | 0.60 | 11.5 | 7 | 2 | 13 | 6 | | M. M. Smith. |
| Elm City | Tooele | 4,900 | 13 | 36.6 | + 6.7 | 60 | 15 | 2 | 11 | 39 | 1.94 | + 0.84 | 0.78 | | 7 | 3 | 13 | 15 | S. | E. A. Bonelli. |
| Elm City | Uinta | | 14 | 18.1 | - 0.8 | 44 | 16 | -11 | 30 | 26 | 1.64 | + 1.03 | 0.57 | 12.0 | 8 | 9 | 8 | 14 | SW. | Joab Collier. |
| Elm City | Rich | 6,500 | 12 | | | | | | | | | | | | | | | | | James Stuart. |
| Averages | | | | 29.5 | + 4.5 | | | | | | 3.92 | + 2.51 | | 14.5 | 11 | 8 | 9 | 14 | SW. | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | |
| Elm City | Sevier | 4,872 | 4 | 32.1 | | 62 | *18 | -4 | 25 | 40 | 0.98 | - 0.69 | 0.70 | 7.0 | 6 | 7 | 23 | 1 | SW. | J. W. Fairbanks. |
| Elm City | Millard | | 9 | | | | | | | | | | | | | | | | | A. H. Cassell. |
| Elm City | Emery | 5,500 | 10 | 24.8 | + 2.4 | 51 | 7 | -2 | 3 | 34 | 1.44 | + 0.96 | 0.60 | | 8 | 9 | 21 | 1 | | James Jeffs. |
| Elm City | Millard | 4,541 | 15 | 36.0 | - 8.9 | 60 | *16 | 1 | 12 | 34 | 0.75 | + 0.27 | 0.41 | 8.0 | 4 | 10 | 3 | 12 | S. | S. W. Western. |
| Elm City | Uinta | | 2 | | | | | | | | | | | | | | | | | H. J. Cooper. |
| Elm City | Emery | 6,260 | 9 | | | | | | | | | | | | | | | | | H. C. Wickman. |
| Elm City | Millard | 5,100 | 19 | 39.8 | + 9.5 | 64 | *16 | 2 | 11 | 46 | 1.12 | - 0.07 | 0.70 | | 6 | | | | | J. J. Starley. |
| Elm City | Millard | | 6 | 37.0 | + 8.3 | 62 | 18 | 2 | 11 | 42 | 0.52 | + 0.19 | | | 2 | 12 | 4 | 9 | S. | E. M. Smith. |
| Elm City | Tooele | 5,277 | 9 | 33.8 | + 6.2 | 53 | *15 | -6 | 11 | 34 | 2.24 | + 1.15 | 0.76 | 13.5 | 8 | 10 | 8 | 13 | S. | Walter James. |
| Elm City | Emery | 4,080 | 12 | 29.6 | + 4.6 | 50 | *9 | 0 | 4 | 29 | 0.05 | - 0.14 | 0.05 | T. | 1 | 9 | 19 | 3 | | J. H. Fritz. |
| Elm City | Tooele | 7,500 | 4 | 35.2 | + 9.7 | 62 | *4 | -14 | 29 | 55 | 0.21 | - 0.64 | 0.15 | 3.0 | 3 | 17 | 10 | 4 | SW. | E. S. Gamwell. |
| Elm City | Millard | | 3 | | | | | | | | | | | | | | | | | Geo. Crane. |
| Elm City | Juab | 5,010 | 19 | 32.6 | + 8.3 | 57 | 19 | -4 | *11 | 29 | 2.53 | + 1.10 | 0.60 | 13.8 | 10 | 13 | 6 | 12 | SW. | William Brown. |
| Elm City | Sanpete | 5,575 | 15 | 29.5 | + 4.1 | 54 | 8 | -7 | 29 | 35 | 2.25 | + 1.10 | 0.53 | 4.0 | 9 | 15 | 0 | 16 | SW. | J. M. Anderson. |
| Elm City | Sanpete | | 15 | | | | | | | | | | | | | | | | | B. F. Eliason. |
| Elm City | Utah | 4,650 | 8 | 35.3 | + 8.2 | 58 | 15 | 0 | 11 | 33 | 2.32 | + 1.46 | 0.65 | 10.0 | 8 | 14 | 5 | 12 | S. | D. C. Walker. |
| Elm City | Sanpete | 5,859 | 17 | | | | | | | | | | | | | | | | | Miss Jane Martin. |
| Elm City | Juab | | 6 | | | | | | | | | | | | | | | | | A. Madsen. |
| Elm City | Millard | | 5 | 36.5 | + 7.7 | 62 | 18 | -3 | 12 | 41 | 1.88 | + 0.70 | 0.75 | | 4 | 16 | 7 | 5 | SW. | J. Finlinson. |
| Elm City | Utah | 4,637 | 6 | | | | | | | | | | | | | | | | | D. L. Coombs. |
| Elm City | Utah | 4,532 | 17 | 36.8 | + 10.0 | 66 | 23 | -4 | 11 | 48 | 4.93 | + 3.61 | 1.45 | 2.5 | 9 | 7 | 13 | 11 | SW. | James A. Oliver. |
| Elm City | Sevier | 5,350 | 19 | 35.0 | + 8.1 | 61 | 6 | 1 | 29 | 36 | 1.25 | + 0.59 | 0.70 | 12.0 | 3 | 16 | 0 | 15 | SW. | J. J. Jensen. |
| Elm City | Millard | 5,260 | 14 | 35.6 | + 8.7 | 66 | *15 | -8 | 11 | 47 | 3.34 | + 2.10 | 0.84 | 8.0 | 9 | 8 | 8 | 15 | SW. | Thomas Memmott. |
| Elm City | Carbon | | 17 | 20.8 | | 45 | 18 | -32 | 29 | 62 | 18.38 | | 3.20 | 57.5 | 15 | 12 | 4 | 15 | | O. E. Jorgensen. |
| Elm City | Utah | 7,474 | 17 | | | | | | | | | | | | | | | | | Agent Rio Grande R. R. |
| Elm City | Carbon | | 5 | | | | | | | | | | | | | | | | | Henry Cullum. |
| Elm City | Utah | 5,075 | 17 | 29.0 | + 3.7 | 53 | 15 | -16 | 10 | 55 | 3.95 | + 2.31 | 1.00 | | 7 | 12 | 14 | 5 | | Agt. Rio Grande W. R. R. |
| Elm City | Juab | | 5 | | | | | | | | | | | | | | | | | Frank Parker. |
| Elm City | Utah | | 5 | 39.3 | | 58 | 31 | 8 | 24 | 34 | 3.02 | + 2.28 | | 13.0 | 16 | 4 | 7 | 20 | | W. A. Knight. |
| Elm City | Carbon | 5,540 | 10 | 16.9 | - 4.9 | 42 | 15 | -15 | *12 | 40 | | | | | | | | | | Melville Branch. |
| Averages | | | | 32.4 | + 5.7 | | | | | | 2.87 | + 1.17 | | 12.7 | 8 | 11 | 10 | 10 | SW. | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | |
| Elm City | San Juan | 4,800 | 9 | | | | | | | | | | | | | | | | | Miss S. Hubert. |
| Elm City | Beaver | | 4 | 34.8 | + 1.4 | 60 | *18 | 0 | 29 | 38 | 1.30 | + 0.48 | 0.60 | 12.9 | 7 | 5 | 16 | 10 | SW. | James Connell. |
| Elm City | Iron | | 4 | 38.2 | + 3.8 | 61 | 17 | 8 | *11 | 28 | 0.77 | + 0.03 | 0.62 | 4.5 | 4 | 2 | 13 | 16 | NE. | J. M. Foster. |
| Elm City | Garfield | | 8 | | | | | | | | | | | | | | | | | Mrs. E. Clayton. |
| Elm City | Washington | | 4 | | | | | | | | | | | | | | | | | John Day. |
| Elm City | Garfield | 5,700 | 9 | 32.4 | + 6.0 | 56 | *15 | 7 | 3 | 34 | 1.49 | - 0.96 | 1.28 | | 4 | 6 | 16 | 9 | S. | Geo. H. Barney. |
| Elm City | Washington | | 6 | 41.8 | + 2.0 | 66 | 6 | 16 | 10 | 39 | 1.31 | - 0.26 | 0.86 | | 3 | 8 | 0 | 23 | | Joseph T. Atkins. |
| Elm City | Beaver | 7,318 | 15 | 34.2 | + 2.3 | 56 | 18 | 4 | 11 | 24 | 0.60 | + 0.13 | 0.60 | 6.0 | 1 | | | | | E. R. Smyth. |
| Elm City | San Juan | | 5 | 29.4 | + 1.2 | 51 | 16 | -12 | 13 | 48 | 3.65 | + 1.37 | 1.30 | 24.0 | 8 | 11 | 4 | 16 | S. | Joseph A. Lyman. |
| Elm City | Garfield | 3,000 | 10 | 41.0 | + 5.0 | 66 | 6 | 20 | *1 | 33 | 1.27 | + 0.83 | 0.50 | | 4 | 11 | 10 | 10 | | J. P. Hite. |
| Elm City | Kane | 4,925 | 9 | | | | | | | | | | | | | | | | | W. J. F. McAllister. |
| Elm City | San Juan | 7,000 | 9 | 30.0 | + 3.3 | 51 | 18 | 1 | 29 | 33 | 1.19 | + 0.22 | 0.65 | 11.9 | 2 | 9 | 4 | 14 | | Mrs. G. W. Carpenter. |
| Elm City | | | | | | | | | | | | | | | | | | | | |

TOTAL PRECIPITATION JANUARY, 1909



SCALE OF SHADES - IN INCHES



Daily Precipitation, January, 1909.

| Stations | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total | | |
|---------------------------|---------------|-----|-----|------|------|------|------|------|------|-----|-----|------|------|------|------|-----|------|------|-----|------|------|------|------|-----|-----|-----|-----|------|-----|------|----|-------|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Rock | | | .03 | | .40 | .50 | .30 | | .20 | .25 | | | .80 | .55 | .30 | | | .05 | .40 | | .20 | .30 | | | | | | | .10 | | | | | |
| Corinne | | | | .30 | | | | | | | | | .80 | .28 | | | | .28 | .05 | | .40 | .30 | .10 | | | | | | | | | | | |
| Farmington | | | T. | T. | .75 | .05 | T. | | .15 | .30 | | | .15 | .30 | | | | | .15 | | .90 | .40 | .10 | | | | | | | | | | | |
| Ft. Duchesne | | | | .60 | | | | | | | | | | | | | | | | | .60 | * | 1.00 | | | | | | | .20 | | | | |
| Grantville (near) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heber | | | | 1.00 | 1.10 | .06 | .40 | .70 | | | | .30 | 2.20 | .50 | | | | | | .30 | 1.10 | .75 | .30 | | | | | .10 | | | | | | |
| Hendef | | .02 | .05 | 1.00 | 1.01 | .41 | .20 | .70 | | | | .25 | 1.05 | .20 | .15 | | | | .03 | .25 | .45 | .15 | .79 | | | | | .14 | | | | | | |
| Huntsville | | | .06 | | 2.03 | .25 | T. | .40 | | | | 1.93 | .71 | T. | .37 | T. | | | .77 | | 1.15 | .32 | | | | .07 | | .22 | | | | | | |
| Kelton | | | | | | | .05 | * | * | * | * | * | * | * | T. | * | 1.22 | | | * | * | * | * | * | * | * | * | * | * | | | | | |
| Logan | | | | | | | * | * | * | * | * | * | * | * | * | T. | * | 1.22 | | | * | * | * | * | * | * | * | * | * | 1.75 | | | | |
| Lucin | | | | | | .05 | | | T. | | | | .01 | .01 | T. | T. | T. | T. | T. | .05 | T. | .01 | T. | | | | .01 | | | | | | | |
| Marion | | T. | .01 | .50 | .20 | .15 | T. | .70 | | | | .29 | 1.02 | .15 | T. | T. | | | | .21 | .32 | .50 | .46 | T. | | | | .10 | | | | | | |
| Meadowville | | | | .80 | 2.70 | .25 | T. | | | | | .50 | 1.70 | .55 | .35 | | .15 | .10 | .45 | .20 | .25 | | | | | | | | | | | | | |
| Millsville | | | | .50 | .75 | .03 | | .31 | .08 | | | .53 | .59 | .28 | .10 | | .07 | .09 | .61 | .46 | .41 | .23 | | | | | | .27 | | | | | | |
| Morgan | | | | T. | | 1.25 | 1.30 | .35 | | .30 | .53 | | 1.00 | 1.35 | 1.05 | .20 | | | T. | .52 | .78 | .50 | .80 | | | | | .60 | | | | | | |
| Ogden No. 1 | | | | | .57 | .41 | | T. | .07 | .05 | | .55 | .79 | .15 | .16 | | | | .09 | .55 | .51 | .05 | | | | | | .10 | | | | | | |
| Ogden No. 2 | | | | T. | | .41 | .30 | T. | .14 | .08 | | .52 | .31 | .11 | .09 | | | | .22 | .24 | .36 | .60 | .04 | | T. | | | .06 | | | | | | |
| Park City | | | | | .23 | .17 | .32 | .10 | .36 | | | .05 | | .03 | .07 | | | | .02 | .23 | .67 | .29 | 1.10 | .04 | | | .40 | | | | | .01 | | |
| Promontory | | | | | | .12 | | .40 | | .06 | | .07 | | .12 | .05 | | | | | .22 | .40 | | | | .50 | .40 | | .20 | | | | | | |
| Ran-folph | | T. | | | .38 | T. | | | | | | .20 | .12 | T. | | | | .18 | | .07 | .07 | | .10 | .67 | | | | | | | | | | |
| Saltar Beach | | T. | | | .11 | .02 | .02 | | .15 | .11 | | | .42 | .04 | .04 | | | | | .15 | .35 | .40 | .06 | | | | | .05 | | | | | | |
| Salt Lake City | | .01 | | | .34 | .03 | | | .36 | .16 | | | .16 | .15 | T. | .10 | | | .02 | .38 | .40 | .32 | .07 | | | | .10 | .10 | | | | | | |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | | T. | | | .25 | .17 | | | | | | | .60 | .20 | .10 | | | | .10 | .05 | .10 | .20 | .20 | | .10 | | .10 | | | | | | | |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | | | | T. | .10 | | | T. | .05 | | | .05 | T. | | | | | | | .05 | .25 | .60 | .05 | | | | | | | | | | | |
| Tonole | | | | T. | | | | T. | .78 | | | | .11 | | T. | | | | | .15 | .21 | .55 | .10 | | | | | .04 | | | | | | |
| Vernal (near) | | | | | .22 | | | | .03 | | | .07 | | | | | | | | .08 | .57 | .47 | .15 | | | | | .05 | | | | | | |
| Woodruff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | | | .02 | | | | | T. | | .03 | T. | | .17 | .04 | | | | | | | | | | .70 | | | | .02 | | | | | | |
| Black Rock | | | | | | | | | | | | | | .30 | .20 | | .10 | | | | .60 | .02 | .02 | .05 | | | | | | | | | | |
| Castle Dale | T. | | | | .15 | | | | | | | | | | | | | | T. | | .10 | .20 | .04 | | | | | | | | | | | |
| Deseret | | | | | | | | | .41 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dragon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fillmore | | | | | | | | | | | | | | | | | | | | .08 | T. | .70 | .02 | | | | T. | T. | | | | | | |
| Garrison | | | | | | | | | | | | | | | | | | | | | * | .52 | * | | | | | | | | | | | |
| Government Creek | | | | | T. | T. | | | .76 | | | | .05 | .05 | | | | | .15 | .40 | .43 | .20 | | | | | T. | .20 | | | | | | |
| Green River | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hatch (near) | | | | | | | | .02 | | | | | | | | | | | | | .04 | .15 | | | T. | | T. | | | | | | | |
| Kanosh | | | | | .24 | | | | | | | .04 | | .14 | .03 | | | | | | .04 | .80 | | .05 | | | | | | | | | | |
| Levan | | | | .04 | .04 | | | .32 | | | | .12 | .08 | | | | | | .39 | .60 | .36 | | | * | .56 | | | | | | | | | |
| Manti | | | | | .53 | T. | | .16 | .10 | | | .39 | .59 | .21 | T. | | | | .31 | .25 | .40 | | | | | | .30 | .20 | | | | | | |
| Moroni | | | .08 | .29 | .32 | | | .05 | .41 | | | .39 | .59 | .21 | T. | | | | .57 | .83 | .63 | .15 | | | | | | .10 | | | | | | |
| Mount Nebo | | | | .04 | .05 | | | T. | .55 | | | T. | | | | | | | .17 | .55 | .65 | .21 | | | | | .10 | | | | | | | |
| Mount Pleasant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi | | | | .15 | .19 | | | | .12 | | | .23 | .10 | | | | | | | .30 | .80 | .30 | .06 | | | | * | .40 | | | | | | |
| Nephi (near) | | | * | * | .20 | | | * | .13 | | | * | .23 | .29 | | | | | * | * | * | * | 1.30 | | | * | .25 | | | | | | | |
| Oak City | | | | | | | | | | | | .53 | | T. | T. | | | | | | .75 | .35 | | | | | .25 | | | | | | | |
| Payson | | | .05 | .05 | .20 | | | T. | 1.65 | | | | T. | T. | | | | | | .57 | .30 | .60 | .33 | | | | | .30 | | | | | | |
| Provo | | | .95 | .35 | | | | | | | | | .40 | | | | | | | 1.20 | 1.45 | .30 | .18 | | | | * | .10 | | | | | | |
| Richfield | | | | | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | |
| Scipio | | | | | | | | | | | | .21 | | .38 | .49 | | | | | | .49 | .38 | .84 | .04 | | | | | .44 | | | | | |
| Scotfield | | | .60 | .30 | 1.10 | 1.42 | .26 | 1.09 | 2.06 | | | 1.18 | 2.25 | | | | | | .25 | 1.20 | 1.35 | 3.20 | | | | | .92 | 1.14 | | | | | | |
| Soldier Summit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside | | | .20 | | .30 | | | .20 | | | | .15 | .20 | | | | | | | T. | .15 | .75 | .40 | .30 | T. | | | T. | | | | | | |
| Thistle | | | | 1.00 | | | .50 | | | | | 1.00 | | | | | | | | 1.00 | .10 | .10 | | | | | | | | | | | | |
| Trout Creek | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah Lake Pumping Station | | | .02 | .29 | .09 | T. | T. | | .07 | .54 | | * | .25 | .27 | | .07 | | | | * | * | 1.25 | * | .22 | | | | * | .15 | | | | | |
| Wellington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anceth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | | | | | | | | T. | .04 | | | .10 | .20 | | | | | | | .01 | | .60 | .20 | | | | .15 | | | | | | | |
| Cedar City | | | | | | | | * | * | * | | .09 | | | | | | | | | | .62 | .05 | | | | .01 | | | | | | | |

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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1909

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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BY

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ACTING SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

MARCH 12, 1909

MEAN TEMPERATURES AND PREVAILING WINDS, FEBRUARY, 1909.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

VERNE H. CHURCH,

ACTING SECTION DIRECTOR.

VOL. XI. SALT LAKE CITY, UTAH, FEBRUARY, 1909. No. 2

GENERAL SUMMARY.

The mean temperature for the month was slightly below the seasonal average, while the precipitation, like that of the previous month, was considerably in excess of the normal amount. The month was colder during seven of the years since 1892, and warmer during the other ten, five of which were those from 1904 to 1908. The precipitation was greater than that of any February during the past 17 years, except that of 1897, when 2.35 inches was the recorded average for the State.

The temperature was generally below the normal in the western, southern and eastern counties, the greatest deficiency occurring in Uinta and Carbon counties. Over the greater portion of the central counties, the temperature was above the normal. The maximum temperatures occurred in some localities during the first week, and in nearly all the remaining ones during the closing days. The minimum temperatures were mostly recorded between the 6th and 9th, altho in some instances on the 23d and 24th. The warm and cool periods, however, were not well marked.

The precipitation was well distributed and above the normal amount over all sections, deficiencies occurring only at a few isolated stations. The excess was greatest over the northern and east over the middle section. Fair weather prevailed during the opening and closing days of the month, but rain or snow occurred within the State every day from the 3d to the 25th, precipitation being recorded at some stations nearly every day during that time. The snowfall in the mountains was heavy, and, with the accumulation of previous months, all well drifted and solidly packed, gives assurance of an abundant water supply thruout the State for the coming season.

High winds were frequent over all sections, and thunderstorms occurred in a few localities.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 54 stations, was 29.5°, which was 0.9° below the normal.

The highest local monthly mean was 41.8° at Experiment Farm, and the lowest was 10.9° at Ft. Duchesne.

The highest temperature recorded was 67° at Experiment Farm on the 2d, and the lowest, —32° at Scofield on the 24th giving a range for the section of 99°.

The greatest local monthly range was 66° at Dragon, and the least, 22° at Logan.

PRECIPITATION.

The average precipitation, determined from the reports of 67 stations, was 2.15 inches, which was 0.99 inch above the normal for the State.

The greatest monthly amount was 10.53 inches at Park City; and the least monthly amount was a 0.23 inch at Green River.

The greatest amount of precipitation in any 24 consecutive hours was 3.64 inches at Park City, on the 7th.

There was an average of 7 days with 0.01 inch or more of precipitation; 9 over the northern, 6 over the middle, and 6 over the southern section.

WIND.

The prevailing direction for the section was south.

The total number of miles recorded at Salt Lake City was 4762; at Modena, 6993; at Grand Junction, Colo., 3536; and at Pocatello, Idaho, 8541.

The maximum velocity at Salt Lake City was 38 miles per hour from the northwest on the 17th; at Modena, 48 miles from the west on the 8th; at Grand Junction, Colo., 34 miles from the southwest on the 8th; and at Pocatello, Idaho, 36 miles from the southwest on the 8th.

CLOUDINESS.

The average number of clear days for the section during the month was 9; partly cloudy days, 8; cloudy days, 11.

According to the records of automatic sunshine recorders, Salt Lake City had 37 per cent; Modena 58 per cent; Grand Junction, Colo., 58 per cent; and Pocatello, Idaho, 40 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 62 per cent, the lowest observed reading being 31 per cent on the 3d; at Modena, 72 per cent, the lowest observed reading being 34 per cent on the 20th; at Grand Junction, Colo., 62 per cent, the lowest observed reading being 32 per cent on the 23d and 26th; and at Pocatello, Idaho, 75 per cent, the lowest observed reading being 42 per cent on the 2d.

MISCELLANEOUS PHENOMENA.

Stations and dates of occurrence.

Coronas, lunar.—Tropic, 5.

Coronas, solar.—Marysville, 10; Tropic, 28.

Halos, solar.—Henefer, 24; Salt Lake City, 4.

Halos, lunar.—Ft. Duchesne, 19; Marysville, 5; Modena, 5, 6.

Hail.—Deseret, 8; Farmington, 16; Henefer, 17; Levan, 8, 11, 16; Marysville, 17, 19; Meadowville, 7; Morgan, 17; Moroni, 17, 19, 25; Nephi, 5; Salt Lake City, 8, 17; Scofield, 4; Tooele, 4, 17; Tropic, 12, 17.

Thunderstorms.—Castle Rock, 17; Farmington, 16; Grayson, 8; Heber, 17; Henefer, 17; Huntsville, 17; Marion, 17; Meadowville, 16; Morgan, 13, 17; Salt Lake City, 17; Snowville, 17; Tooele, 17; Tropic, 13; Utah Lake Pumping Station, 17.

Sleet.—Castle Rock, 13; Heber, 17, 18; Henefer, 17; Huntsville, 3, 7, 12, 13, 16; Ibapah, 11; Marion, 12; Meadowville, 12, 16, 17; Morgan, 17-19, 21; Moroni, 8, 13; Pinto, 7; Scofield, 7-13, 15, 19; Tooele, 19; Tropic, 7; Utah Lake Pumping Station, 17.

High Winds.—Castle Rock, 8, 9; Deseret, 3, 6, 7, 9, 11, 12, 17-19, 22, 24; Ft. Duchesne, 17, 20, 21; Garrison, 1, 3, 7, 8, 10, 11, 19, 23, 27; Government Creek, 9-12, 17, 18, 24; Grayson, 17; Henefer, 11; La Sal, 8, 17; Marion, 7-10, 13, 21; Marysvale, 3, 12; Meadowville, 5, 8-10, 17, 19; Modena, 3, 5, 6-8, 11-13, 17, 19, 20, 22, 24, 28; Morgan, 7, 8, 19, 22; Nephi, 4; Panguitch, 7, 8, 17, 21; Pinto, 12; Richfield, 5, 7, 8, 19, 21, 22; Saltair Beach, 8; Salt Lake City, 4, 5, 8, 9, 12, 17-19, 22; Sunnyside, 19; Theodore, 4, 8, 13, 17, 19; Tooele, 3, 7, 12, 19; Tropic, 8, 13; Utah Lake Pumping Station, 5, 13, 17, 19, 21, 22; Vernal, 8.

ERRATA.

February, 1909, report: Page 16, Grayson, total precipitation should be 2.70 inches instead of 2.10 inches.

LATE REPORTS.

For December: Grantsville, total precipitation, 0.33 inch; number of rainy days, 3.

For January: Strawberry Valley, mean temperature, 22.6°; highest, 45° on the 20th; lowest, —10° on the 11th; greatest daily range, 32°; total precipitation, 9.10 inches; greatest in 24 hours, 1.50 inches; total snowfall, 91.0 inches; number of rainy days, 11; clear days, 0; partly cloudy days, 0; cloudy days, 31.

Grantsville, total precipitation, 0.79 inch; greatest in 24 hours 0.35 inch; number of rainy days, 5.

WATER STAGES.

The level of Great Salt Lake on February 1st was 3.9 feet above zero; on February 15th, 4.1 feet above, and on March 1st, 4.2 feet above.

COMPARATIVE STATE DATA FOR FEBRUARY.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1872 | 32.4 | 73 | —34 | 0.77 |
| 1873 | 26.6 | 70 | —32 | 1.35 |
| 1874 | 20.9 | 68 | —34 | 1.11 |
| 1875 | 25.5 | 74 | —33 | 1.25 |
| 1876 | 31.0 | 74 | —16 | 0.46 |
| 1877 | 27.0 | 63 | —21 | 2.35 |
| 1878 | 29.1 | 79 | —21 | 0.47 |
| 1879 | 28.8 | 77 | —50 | 1.73 |
| 1880 | 34.2 | 73 | —24 | 0.57 |
| 1881 | 31.0 | 75 | —26 | 1.90 |
| 1882 | 34.1 | 74 | —20 | 0.87 |
| 1883 | 16.6 | 67 | —39 | 0.75 |
| 1884 | 34.2 | 89 | —26 | 1.53 |
| 1885 | 30.5 | 73 | —35 | 1.67 |
| 1886 | 33.7 | 84 | —15 | 0.88 |
| 1887 | 40.4 | 86 | —3 | 1.95 |
| 1888 | 31.2 | 80 | —34 | 1.16 |
| 1889 | 29.5 | 67 | —32 | 2.15 |

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF FEBRUARY, 1909.

The snowfall during the month of February was above the normal amount in the mountain districts of nearly all portions of the State. Rains and occasional thawing weather caused the snow to become very solid. The snow being greater than the average depth thruout all portions of the State, together with its uniformly well packed and drifted condition, gives an excellent assurance of an abundant supply of water for the coming season, with the probability that considerable snow will remain in favorable localities at the close of the summer months.

GREAT SALT LAKE WATERSHED.

Promontory, the snow well drifted and packed. Millville, the snow is very solid tho not much drifted. The prospect is excellent for an abundance of water. Hyrum, the snow is quite solid, and the outlook for irrigation water is very promising. Meadowville, the snow is well drifted and very solid. There will be an abundance of water. Randolph, the snow is very deep in the adjacent mountains, and is well drifted and packed. Huntsville, the snow is well drifted and packed solid. Clearfield, the snow is well drifted and also well packed. Castle Rock, the snow is well drifted and solidly packed. Park City, the snow is quite well packed and is settling fast. Rockport, the snow is well drifted and very solid. Marion, the snow is well drifted and is packed solid. Henefer, the snow is very solid, being almost of the consistency of ice. It is drifted some. Wanship, the snow is drifted and packed. Hunter, the snow is well packed. Tooele, the snow is well drifted. Government Creek, the storms have been heavier this month than during many years. The snow is well drifted and fairly well packed. Mt. Nebo, the snow is well packed and will melt very slowly. Lake Shore, the snow is well drifted and packed.

SEVIER LAKE WATERSHED.

Moroni, the snow is very well drifted and solidly packed thruout. Manti, the snow is well drifted and packed solid. Levan, there is at least 74 inches of good solid snow in the mountains. Deseret, the snow is well drifted and packed. Kanosh, much of the snow which has fallen has been moist and consequently is well packed and solid. Hinckley, the snow appears to be well packed. Scipio, the snow is well packed, and the prospect is good for a surplus of water. Annabella, the snow is well drifted and solid. Richfield, the snow is well drifted and packed, and believed to be double the amount in recent years.

GREEN AND COLORADO RIVERS WATERSHED.

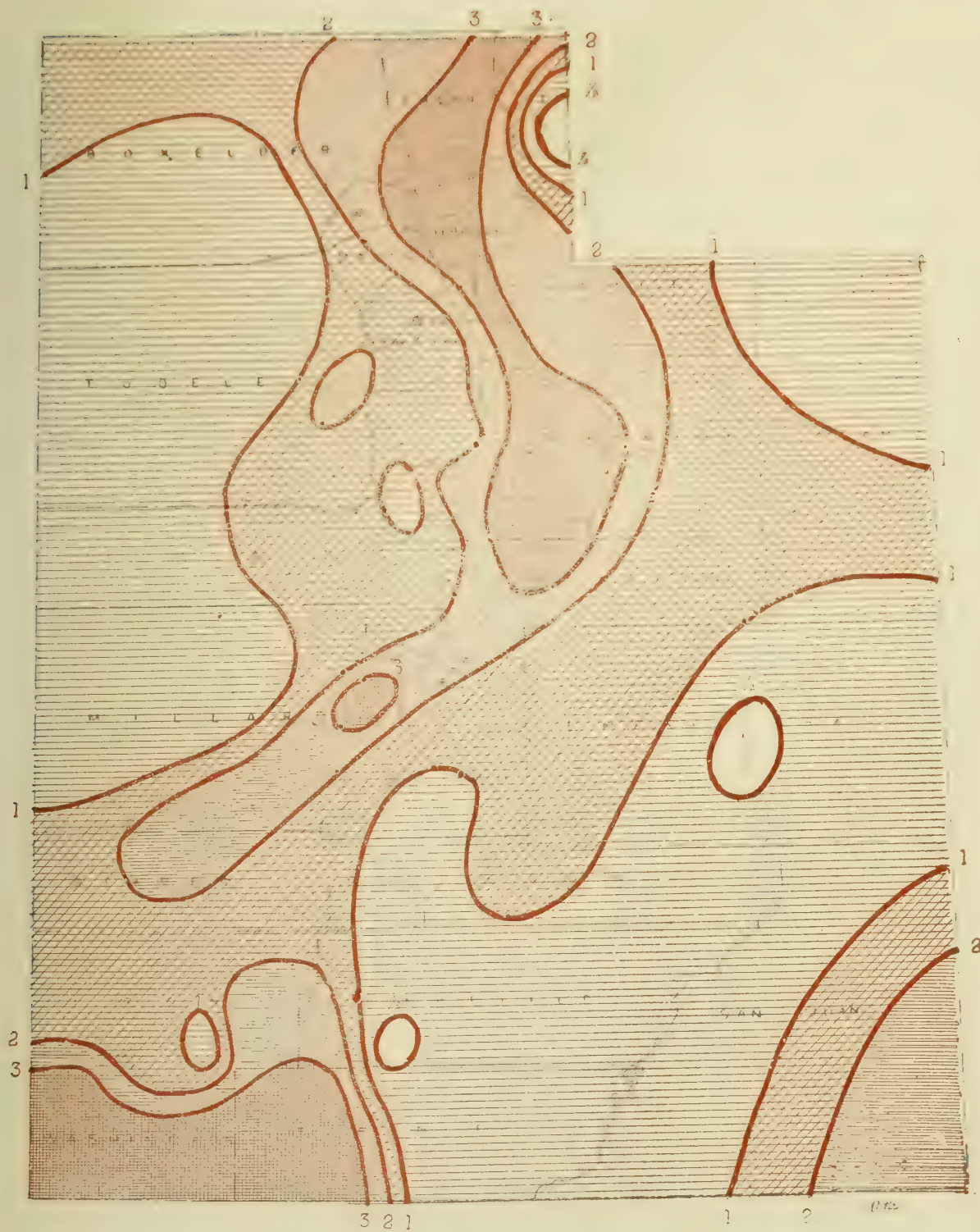
Ft. Duchesne, the snow is packed solid. Castle Dale, the snow is well drifted and packed. Lawrence, the snow is well drifted. Loa, the amount of snow is small, but is well drifted. Hite, the snow is well drifted and packed. Tropic, the snow in the mountains is deep, drifted and well packed. Escalante, the snow is well drifted and very solid. Ranch, the snow is well packed and settled to a very solid condition. Ferron, the snow is greatly drifted and is solid. The outlook for water is better than for a number of years.

CLIMATOLOGICAL DATA, FEBRUARY, 1909.

| Stations | Counties | Elevation, feet | Length of record, years | Temperature, in degrees Fahrenheit | | | | | | Precipitation, in inches | | | | Sky | | | | Prevailing direction of wind | Observers | |
|---------------------|------------|-----------------|-------------------------|------------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|--------------------------|-------------------------------------|-------------------|---------------------------|------------------------------|--------------|----------------------------|
| | | | | Mean | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall, unmelted | Days with at least one inch or more | Number clear days | Number partly cloudy days | | | Number cloudy days |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,080 | 13 | | | | | | | | | | | | | | | | | T. B. Whitby. |
| Castle Rock | Summit | | 0 | | | | | | | | 2.85 | +1.11 | 0.60 | 8.0 | 8 | 8 | 1 | 17 | W. | David Moore. |
| Crinone | Boxelder | 4,240 | 30 | 31.0 | +2.8 | 50 | 1 | 1 | 6 | 32 | 2.98 | +1.78 | 1.00 | 8.0 | 7 | 4 | 15 | 12 | nw | Agent So. Pacific R. R. |
| Crinone | Davis | 4,267 | 9 | 35.0 | +1.8 | 54 | 4 | 14 | 6 | 25 | 2.86 | +0.23 | 0.99 | 15.3 | 8 | 8 | 12 | 8 | nw | Charles Boylin. |
| Crinone | Uinta | 5,000 | 21 | 10.8 | -8.5 | 39 | 12 | 25 | 6 | 47 | 1.60 | +0.17 | 0.60 | | | 4 | 24 | 0 | ne. | Post Surgeon. |
| Crinone | Tooele | | | | | | | | | | 0.63 | -0.07 | | | 13 | | | | nw. | A. J. Fraser. |
| Crinone | Wasatch | 5,606 | 10 | 24.8 | +0.9 | 44 | *1 | 15 | 6 | 43 | 2.25 | +0.15 | 0.35 | 28.0 | 13 | 7 | 5 | 16 | n. | John Crook. |
| Crinone | Summit | 5,301 | 10 | 26.5 | +0.0 | 49 | 28 | 13 | 6 | 42 | 2.98 | +0.76 | 0.98 | 26.2 | 11 | 7 | 6 | 15 | nw | William Brewer. |
| Crinone | Weber | 5,100 | 14 | | | | | | | | 3.77 | +1.27 | 0.60 | 25.5 | 13 | 3 | 11 | 14 | nw. | Lars Petersen. |
| Crinone | Boxelder | 4,230 | 31 | 28.1 | -0.9 | 45 | 27 | 6 | 9 | 31 | 1.00 | +0.38 | 0.50 | 10.0 | 5 | 0 | 20 | 8 | sw. | Agent So. Pacific R. R. |
| Crinone | CACHE | 4,507 | 18 | 27.4 | +1.2 | 46 | 3 | 10 | *6 | 22 | 2.59 | +1.29 | | | 19 | | | | nw. | Agricultural College. |
| Crinone | Boxelder | | 5 | 30.4 | | 51 | 28 | 3 | 9 | 38 | 0.65 | | 0.40 | 6.5 | 4 | | | | nw. | C. J. Burke. |
| Crinone | Summit | | 5 | | | | | | | | 2.72 | +0.58 | 0.79 | 28.0 | 11 | 4 | 0 | 24 | nw. | J. Woolstenhulme. |
| Crinone | Rich | 6,200 | 10 | 23.2 | +0.8 | 42 | 12 | 9 | *6 | 31 | 3.37 | +1.18 | 0.80 | 21.0 | 8 | 9 | 2 | 17 | w. | J. S. Moffat. |
| Crinone | CACHE | 4,848 | 14 | | | | | | | | 3.31 | +2.11 | 0.99 | | 12 | | | | w. | Fred Yeates. |
| Crinone | Morgan | 5,080 | 6 | 28.6 | +1.8 | 49 | 5 | 0 | 23 | 38 | 5.33 | +3.08 | 1.00 | | 14 | 8 | 8 | 12 | nw. | W. Visick. |
| Crinone | Weber | 4,310 | 8 | 33.4 | +1.1 | 49 | 28 | 12 | 0 | 27 | 3.37 | +1.15 | 1.55 | 24.5 | 9 | 9 | 13 | 6 | nw. | Enoch Farr. |
| Crinone | Weber | 4,310 | 39 | | | | | | | | | | | | | | | | nw. | W. H. Chevers. |
| Crinone | Summit | 7,800 | 12 | | | | | | | | 10.53 | +7.66 | 3.64 | 105.3 | 12 | 13 | 4 | 11 | nw. | Prof. A. D. Griffin. |
| Crinone | Boxelder | | 2 | | | | | | | | 2.50 | +1.68 | 1.20 | 25.0 | 5 | | | | sw. | F. C. Houghton. |
| Crinone | Rich | | 6 | | | | | | | | 0.38 | -0.18 | 0.17 | | 3 | 18 | 0 | 10 | sw. | Wm. Rex. |
| Crinone | Salt Lake | | 6 | 34.7 | +0.9 | 49 | 12 | 18 | 6 | 27 | 1.46 | +0.20 | 0.42 | 13.5 | 6 | | | | se. | E. J. Bench. |
| Crinone | Salt Lake | 4,366 | 35 | 35.9 | +3.0 | 56 | 28 | 17 | 6 | 26 | 1.89 | +0.51 | 0.76 | 12.7 | 6 | 6 | 9 | 13 | se. | Section Center. |
| Crinone | Boxelder | | 3 | | | | | | | | | | | | | | | | n. | N. J. Ferhcraft. |
| Crinone | Boxelder | 4,360 | 19 | 26.2 | -0.8 | 45 | 1 | 9 | 6 | 46 | 1.00 | +0.13 | 0.30 | 6.0 | 4 | 5 | 15 | 8 | s. | Joseph Robbins. |
| Crinone | Wasatch | | 5 | 20.6 | | 41 | 2 | 6 | 23 | 31 | 6.50 | +0.80 | 65.0 | 13 | 9 | 0 | 19 | | sw. | U. S. Reclamation Service. |
| Crinone | Wasatch | 5,507 | 4 | 15.7 | | 42 | 12 | 17 | 24 | 46 | 1.00 | +0.25 | 10.0 | 6 | 11 | 14 | 3 | W. | M. M. Smith. | |
| Crinone | Tooele | 4,900 | 13 | 34.0 | +1.0 | 56 | 28 | 13 | 6 | 31 | 2.36 | +1.12 | 1.11 | | 7 | 1 | 8 | 19 | se. | E. A. Bonelli. |
| Crinone | Uinta | 4,110 | 14 | 10.1 | -7.3 | 41 | *12 | 5 | 6 | 33 | 0.52 | -0.13 | 0.27 | 5.5 | 4 | 14 | 5 | 9 | nw. | Joab Collier. |
| Crinone | Rich | 6,500 | 12 | | | | | | | | | | | | | | | | nw. | James Stuart. |
| Averages | | | 26.9 | | -0.6 | | | | | | 2.71 | +1.41 | | 26.2 | 9 | 8 | 8 | 12 | nw. | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | |
| Alphabeta (near) S. | Sevier | | 4 | 32.8 | | 62 | 3 | 5 | 15 | 42 | 0.75 | +0.03 | 0.37 | 13.0 | 5 | 3 | 14 | 11 | sw. | J. W. Fairbanks. |
| Alphabeta (near) S. | Millard | 4,872 | 9 | | | | | | | | | | | | | | | | n. | A. H. Cassell. |
| Alphabeta (near) S. | Emery | 5,500 | 10 | 22.7 | -5.4 | 44 | 17 | 3 | 23 | 39 | 1.66 | +0.94 | 0.76 | | 7 | 8 | 20 | 11 | n. | James Jeffs. |
| Alphabeta (near) S. | Millard | 4,541 | 15 | 34.2 | +3.1 | 58 | 3 | 6 | 23 | 34 | 0.94 | +0.07 | 0.35 | 11.0 | 5 | 9 | 4 | 15 | s. | S. W. Western. |
| Alphabeta (near) S. | Uinta | | 2 | 25.8 | | 65 | 2 | 4 | 23 | 66 | 1.25 | | 0.40 | 12.5 | 6 | 10 | 8 | 10 | n. | H. J. Cooper. |
| Alphabeta (near) S. | Emery | 6,260 | 9 | 32.8 | +2.4 | 61 | 12 | 10 | 28 | 36 | 1.33 | +0.45 | 0.40 | 13.3 | 6 | 1 | 8 | 19 | e. | H. C. Wickman. |
| Alphabeta (near) S. | Millard | 5,100 | 19 | 36.2 | +2.4 | 65 | 16 | 5 | 9 | 41 | 2.66 | -1.18 | 0.85 | | 7 | | | | n. | J. J. Starley. |
| Alphabeta (near) S. | Millard | | 6 | 34.9 | +2.1 | 57 | 7 | 7 | 8 | 42 | 0.80 | 0.00 | 0.80 | | 1 | 12 | 1 | 9 | s. | E. M. Smith. |
| Alphabeta (near) S. | Tooele | 5,277 | 9 | 31.0 | -0.5 | 51 | 8 | 5 | 9 | 31 | 1.88 | +0.48 | 0.80 | 17.0 | 4 | 4 | 7 | 17 | s. | Walter James. |
| Alphabeta (near) S. | Emery | 4,080 | 12 | 35.5 | +0.8 | 57 | 12 | 17 | 10 | 35 | 0.23 | +0.41 | 0.23 | | 1 | 17 | 9 | 1 | sw. | J. H. Fritz. |
| Alphabeta (near) S. | Tooele | 7,500 | 4 | 33.0 | +5.2 | 58 | *16 | 0 | 23 | 43 | 0.65 | -1.00 | 0.40 | 6.0 | 3 | 9 | 17 | 2 | sw. | E. S. Gamwell. |
| Alphabeta (near) S. | Millard | | 3 | | | | | | | | 2.69 | | 0.71 | | 5 | | | | n. | Geo. Crane. |
| Alphabeta (near) S. | Juab | 5,010 | 19 | 30.2 | +1.6 | 49 | *3 | 7 | 6 | 31 | 1.89 | +0.28 | 0.65 | 18.9 | 7 | 8 | 7 | 13 | n. | William Brown. |
| Alphabeta (near) S. | Sanpete | 5,575 | 15 | | | | | | | | | | | | | | | | s. | J. M. Anderson. |
| Alphabeta (near) S. | Sanpete | | 8 | 33.6 | +1.2 | 53 | 28 | 12 | 0 | 33 | 0.61 | -0.51 | 0.38 | 2.5 | 8 | 12 | 6 | 10 | s. | B. F. Eliason. |
| Alphabeta (near) S. | Utah | 4,650 | 8 | | | | | | | | | | | | | | | | s. | D. C. Walkey. |
| Alphabeta (near) S. | Sanpete | 5,859 | 17 | | | | | | | | | | | | | | | | n. | Miss Jane Martin. |
| Alphabeta (near) S. | Juab | | 6 | | | | | | | | 1.98 | +0.38 | 0.74 | 18.0 | 8 | 11 | 8 | 9 | sw. | A. Madsen. |
| Alphabeta (near) S. | Millard | | 5 | 32.6 | -4.6 | 58 | 28 | 3 | 1 | 58 | 1.47 | +0.33 | 0.70 | | 5 | 14 | 1 | 13 | sw. | J. Finlinson. |
| Alphabeta (near) S. | Utah | 4,637 | 6 | | | | | | | | 2.04 | +0.30 | 0.68 | | 8 | 4 | 7 | 17 | sw. | D. L. Coombs. |
| Alphabeta (near) S. | Utah | 4,532 | 17 | 34.8 | +3.5 | 57 | 28 | 11 | 9 | 33 | 1.63 | +0.14 | 0.60 | 6.0 | 6 | 7 | 13 | 8 | n. | James A. Oliver. |
| Alphabeta (near) S. | Sevier | 5,350 | 19 | 32.2 | -0.4 | 55 | 28 | 2 | 9 | 38 | 1.10 | +0.37 | 0.60 | 12.0 | 3 | 12 | 0 | 16 | sw. | J. J. Jensen. |
| Alphabeta (near) S. | Millard | 5,260 | 14 | 31.2 | -0.6 | 55 | 2 | 1 | *6 | 45 | 3.11 | +1.37 | 0.73 | 18.0 | 9 | 2 | 13 | 13 | sw. | Thomas Memmott. |
| Alphabeta (near) S. | Carbon | | 19 | 19.5 | | 42 | 3 | 32 | 24 | 60 | 5.40 | | 1.12 | 16.0 | 10 | 14 | 4 | 10 | sw. | O. E. Jorgensen. |
| Alphabeta (near) S. | Utah | 7,474 | 17 | | | | | | | | | | | | | | | | sw. | Agent Rio Grande R. R. |
| Alphabeta (near) S. | Carbon | | 5 | | | | | | | | 1.45 | +0.57 | 0.60 | 14.5 | 4 | | | | sw. | Henry Cullum. |
| Alphabeta (near) S. | Utah | 5,075 | 17 | 28.9 | -1.2 | 48 | *7 | 10 | 6 | 55 | 3.02 | -1.51 | 1.50 | | 7 | 6 | 12 | 10 | sw. | Agt. Rio Grande W. R. R. |
| Alphabeta (near) S. | Juab | | 5 | | | | | | | | | | | | | | | | sw. | Frank Parker. |
| Alphabeta (near) S. | Utah | | 5 | 32.6 | | 49 | 2 | 6 | 6 | 28 | 1.72 | +0.57 | 0.35 | 11.0 | 9 | 10 | 8 | 10 | sw. | W. A. Knight. |
| Alphabeta (near) S. | Carbon | 5,540 | 10 | 14.6 | -11.1 | 42 | 16 | 17 | *9 | 47 | 1.80 | +1.32 | | 18.0 | | | | | sw. | Melville Branch. |
| Averages | | | 30.5 | | -0.7 | | | | | | 1.76 | +0.76 | | 13.0 | 6 | 9 | 9 | 10 | sw. | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | |
| Alphabeta (near) S. | San Juan | 4,800 | 9 | | | | | | | | | | | | | | | | n. | Miss S. Hubert. |
| Alphabeta (near) S. | Beaver | | 6 | 29.8 | -7.4 | 54 | 2 | 0 | 23 | 39 | 1.77 | +0.21 | 0.80 | 17.7 | 7 | 9 | 12 | 7 | n. | James Connell. |
| Alphabeta (near) S. | Iron | | 4 | 34.2 | -3.6 | 58 | 2 | 8 | 23 | 38 | 0.67 | -0.41 | 0.26 | 7.5 | 5 | 4 | 10 | 14 | n. | J. M. Foster. |
| Alphabeta (near) S. | Garfield | | 8 | | | | | | | | | | | | | | | | n. | Mrs. E. Clayton. |
| Alphabeta (near) S. | Washington | | 4 | | | | | | | | 3.16 | +1.42 | 0.70 | 11.5 | 9 | 11 | 9 | 8 | s. | John Day. |
| Alphabeta (near) S. | Garfield | 5,700 | 9 | 32.6 | +0.6 | 55 | 16 | 4 | 9 | 35 | 0.90 | -0.24 | 0.41 | | 5 | 14 | 0 | 14 | s. | Geo. H. Barney. |
| Alphabeta (near) S. | Washington | | 6 | 41.8 | -4.0 | 67 | 2 | 21 | *22 | 40 | | | | | 9 | 5 | 14 | | sw. | Joseph T. Atkins. |
| Alphabeta (near) S. | Beaver | 7,318 | 15 | 29.9 | -4.2 | 50 | 2 | 7 | *9 | 31 | 2.50 | +1.79 | 1.00 | 25.0 | 3 | | | | sw. | E. R. Smyth. |
| Alphabeta (near) S. | San Juan | | 5 | 28.0 | -11.0 | 55 | | | | | | | | | | | | | | |

[illegible]

TOTAL PRECIPITATION, FEBRUARY, 1909



SCALE OF SHADES- IN INCHES



Daily Precipitation, February, 1909.

| Stations | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total |
|---------------------------|---------------|---|-----|-----|-----|------|------|------|-----|------|-----|------|-----|------|------|------|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Rock | | | | | .30 | | | .60 | | .50 | .20 | | .40 | | | | .50 | | .30 | | | | | | | | .05 | | | | | |
| Corinne | | | | .20 | .20 | | .30 | | | | | .55 | .45 | 1.00 | | | | | .28 | | | | | | | | | | | | | |
| Farmington | | | | .20 | .19 | | | .80 | .20 | T. | T. | .05 | .90 | | | | .42 | T. | | | | | | | | | | | | | | |
| Ft. Duchesne | | | .25 | | | | | .60 | | | | | | | | | .45 | | | | | | | | | | | | | | | |
| Grantsville (near) | | | * | .20 | | | | * | * | * | * | * | .28 | | | | | * | .12 | | .03 | | .30 | | | | | | | | | |
| Heber | | | | .20 | .30 | | .20 | .35 | .05 | .08 | .05 | .35 | .05 | | | | .30 | .10 | .12 | | | | | | | .10 | | | | | | |
| Henefer | | | | .02 | .29 | | .02 | .08 | .10 | .29 | T. | .34 | T. | | | | .40 | .29 | .11 | T. | | | | | | .14 | | | | | | |
| Huntsville | | | .26 | .30 | | | * | * | * | 1.35 | | .31 | .60 | | | | .44 | .11 | .12 | .18 | | | | | .10 | | | | | | | |
| Kelton | | | | * | .20 | * | .50 | * | * | * | * | * | * | * | 1.97 | | .10 | | | | .10 | * | * | * | .62 | .10 | | | | | | |
| Logan | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1.97 | | | | | | | | | | | | | | | | |
| Lucin | | | | T. | .10 | T. | .10 | .40 | T. | .05 | T. | T. | T. | T. | | T. | T. | T. | T. | T. | T. | T. | | | | | | | | | | |
| Marion | | | | .09 | .33 | | .17 | .35 | T. | T. | T. | .25 | .38 | .05 | | T. | .70 | .13 | .12 | | | | | | | .15 | | | | | | |
| Meadowville | | | | .10 | | | T. | .80 | | .80 | .60 | | .40 | .25 | | | .02 | .40 | .29 | | | | | | | | | | | | | |
| Millville | | | | .37 | .18 | | .01 | .99 | .02 | .08 | T. | .65 | .60 | | | | T. | .22 | | .13 | | | | | | .05 | .03 | | | | | |
| Morgan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ogden No. 1 | | | | .47 | .15 | | .14 | 1.55 | | | | .23 | .44 | | | .15 | .14 | | .10 | | | | | | | | | | | | | |
| Ogden No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Park City | | | | .36 | .43 | 1.80 | 3.64 | 2.42 | .07 | .30 | | | .40 | | | | .41 | T. | .32 | | .02 | | | | .36 | | | | | | | |
| Promontory | | | | .30 | .40 | | | 1.20 | | | | .40 | | | | | | | | | .20 | | | | | | | | | | | |
| Randolph | | | | | | | T. | .17 | | | | | | | | .13 | T. | | .18 | | | .08 | | | | | | | | | | |
| Saltair Beach | | | | .20 | .30 | | | .35 | | | | .01 | .42 | | | | .18 | | | | | | | | | | | | | | | |
| Salt Lake City | | | | .30 | .05 | | .12 | .38 | T. | T. | T. | T. | .76 | | | T. | .28 | | T. | | T. | | | | T. | | | | | | | |
| Silver Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowville | | | | .30 | | | * | .30 | | | | .20 | | | | .20 | | | | | | | | | | | | | | | | |
| Strawberry Valley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theodore | | | | .20 | T. | | .10 | .20 | | T. | | .05 | .20 | | | | .25 | | T. | | T. | | | | | | | | | | | |
| Tooele | | | | .50 | .21 | | T. | .21 | | | T. | .11 | .11 | | | | .24 | | .01 | | T. | | | | | .08 | | | | | | |
| Vernal (near) | | | | | | | .27 | | | | | .05 | .10 | | | | .10 | | | | | | | | | | | | | | | |
| Woodruff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) | | | | | .02 | | .37 | | | T. | | | .23 | | | | .05 | | | | .08 | | | | | | | | | | | |
| Black Rock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castle Dale | | | | .20 | .10 | | .15 | .20 | | T. | .10 | .76 | | | | | .15 | | T. | | | | | | | | | | | | | |
| Deseret | | | | .15 | T. | | .14 | | | | | .35 | | | | | .05 | | | .25 | | | | | | | | | | | | |
| Dragon | | | | .05 | | | .20 | | | | .40 | | | | .20 | | | | .20 | | .20 | | T. | | | | | | | | | |
| Emery | | | .03 | | .40 | .20 | .30 | | | | | .20 | | | | | | | .20 | | .20 | | | | | | | | | | | |
| Fillmore | | | | .74 | T. | | .40 | | | | .01 | | .85 | | | | | .36 | | .29 | | .01 | | | | | | | | | | |
| Garrison | | | | T. | T. | | .80 | T. | | | | | | | | | T. | | | | | | | | | | | | | | | |
| Government Creek | | | | .40 | T. | | T. | .60 | | | | T. | .80 | | | | .08 | | | | T. | | | | | | | | | | | |
| Green River | | | | | | | T. | T. | | | | | .23 | | | | T. | | | | T. | | | | | | | | | | | |
| Hatch (near) | | | | | | | T. | .10 | | | T. | T. | .15 | | | | T. | | | | .40 | | | | | | | | | | | |
| Kanosh | | | | .71 | | | .60 | | | | | .71 | | | | | .16 | | | | | .51 | | | | | | | | | | |
| Levan | | | | .51 | .08 | | .08 | .42 | | | .08 | .65 | | | | | | | | | T. | T. | | | | .07 | | | | | | |
| Manti | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moroni | | | | .74 | .11 | | .02 | .68 | | T. | .06 | .40 | .01 | | | | .02 | | T. | T. | | .01 | | | T. | | | | | | | |
| Mount Nebo | | | | .05 | .01 | | T. | .38 | | | T. | .04 | .03 | .06 | | | .03 | | T. | | .01 | | | | T. | | | | | | | |
| Mount Pleasant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi | | | | .49 | .05 | | .04 | .70 | * | .07 | .01 | .59 | .03 | | | | | | | | | | | | | | | | | | | |
| Nephi (near) | | | * | * | * | .18 | * | .70 | * | .07 | .01 | .59 | .03 | | | | | | | | | | | | | | | | | | | |
| Oak City | | | | .30 | | | .70 | | | | .17 | | | .18 | | | | .12 | | | | | | | | | | | | | | |
| Payson | | | | .49 | .02 | | .68 | | | T. | .06 | .42 | | | | | .22 | .03 | T. | | | | | | | | | | | | | |
| Provo | | | | .18 | .08 | T. | .60 | | | T. | .25 | .12 | | | | | .40 | | | | | | | | | | | | | | | |
| Richfield | | | | | | | .60 | | | T. | | .40 | | | | | | | | | | | | | | | | | | | | |
| Scipio | | | | .73 | .13 | | .59 | | | .63 | .07 | .40 | | | | | .28 | | | | | .10 | | | | | | | | | | |
| Seelfield | | | | .85 | | 1.12 | .80 | .20 | .64 | .35 | .10 | 1.05 | | .25 | | | | | .04 | | .23 | .05 | | | | | | | | | | |
| Soldier Summit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunnyside | | | | .50 | .05 | | .30 | T. | | T. | T. | | .60 | | | | | | | | | | | | | | | | | | | |
| Thistle | | | .20 | .10 | .10 | | 1.10 | 1.50 | .01 | .01 | | | | | | | | | | | | | | | | | | | | | | |
| Trout Creek | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah Lake Pumping Station | | | * | .23 | .35 | * | .02 | .31 | * | .07 | .10 | * | .35 | | | * | .27 | | | | | | | | | .02 | | | | | | |
| Wellington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aneth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | | | | .15 | .05 | T. | | .20 | | | .30 | .80 | | | | | .02 | | | | T. | .25 | | | | | | | | | | |
| Cedar City | | | * | .18 | | | | .20 | | | | .26 | | | | | | | | .03 | | | | | | | | | | | | |
| Coyote | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enterprise (near) | | | * | .45 | | 1.20 | | | | * | .70 | .40 | | | | | | * | .41 | | | | | | | | | | | | | |
| Escalante | | | | .17 | | | .41 | | | .10 | | .10 | | | | | | | .12 | | | | | | | | | | | | | |
| Experiment Farm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frisco | | | | | | | 1.00 | | | | | .50 | | | | | | | 1.00 | | | | | | | | | | | | | |
| Grayson | | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | | | | | |

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MARCH, 1909.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

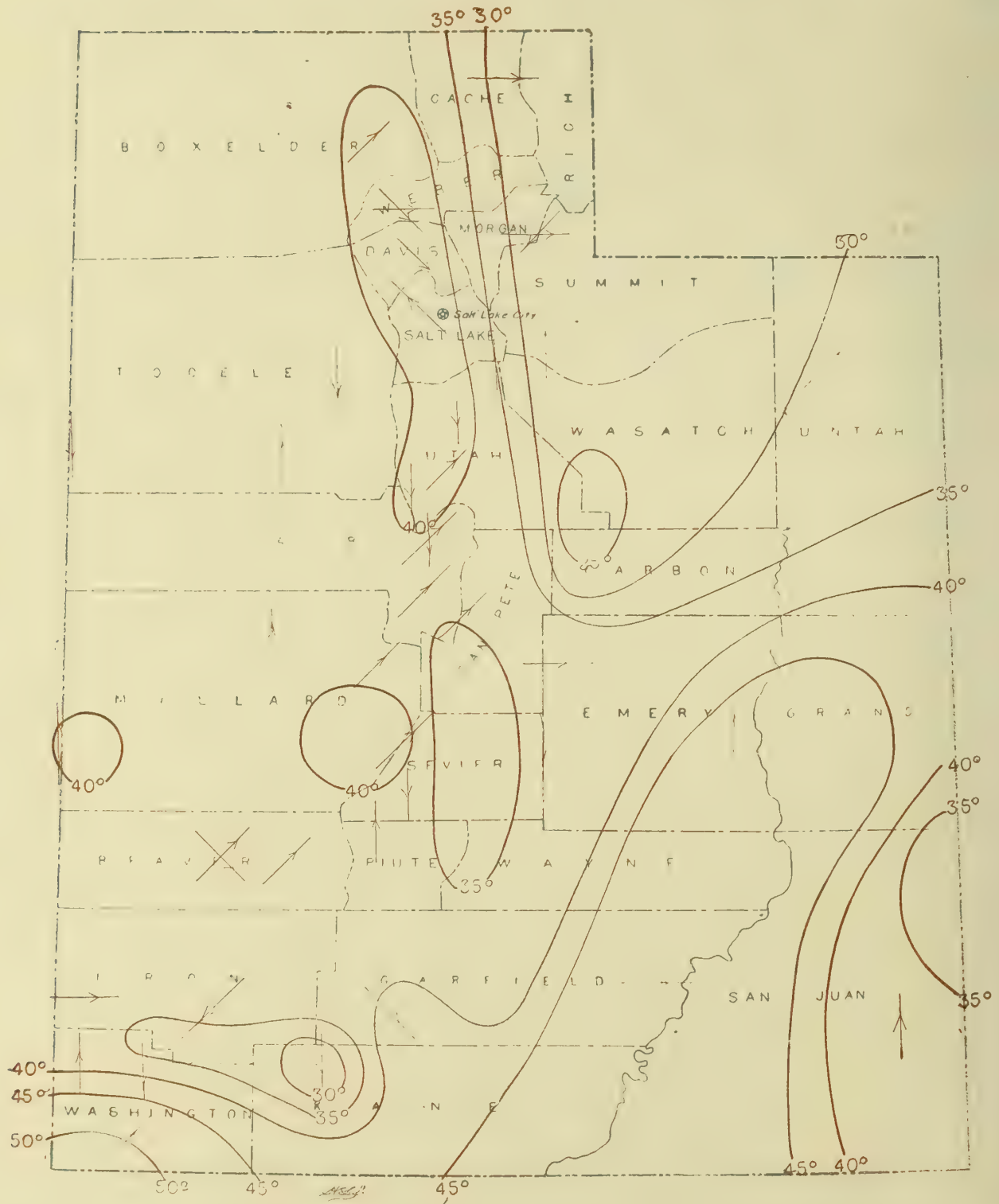
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

APRIL 12, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, MARCH, 1909.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

Vol. XI. SALT LAKE CITY, UTAH, MARCH, 1909. No. 3

GENERAL SUMMARY.

The month's weather was comparatively cloudy with a general deficiency of both temperature and precipitation. The storms, while as numerous as usual, were less severe, producing few high winds of note, and precipitating less rain and snow. Eight out of eighteen Marches have been colder, and our have been drier, on the average for the section.

As usual the mountain districts reported the lowest temperatures and the valleys of the Rio Virgin and Colorado rivers reported the highest. However, the temperature deficiency occurred largely over the northern and middle portions of the section, the long-record stations of the southern portion showing practically a normal temperature average. The maximum temperatures were generally recorded about the middle of the month, immediately following the period of greatest cold which occurred on the 11th and 12th.

The precipitation was mostly in the form of moist snow, which was deposited principally in the mountains, the eastern, southeastern and northwestern portions of the State receiving much less, and in places none. The stormy periods were fairly well marked thruout the section, beginning on the 3d and clearing about the 10th, and beginning again on the 17th, and continuing quite generally until the 30th.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 53 stations, was 37.4° , which was 1.2° below the normal.

The highest local monthly mean was 50.3° at St. George, and the lowest was 21.2° at Scofield.

The highest temperature recorded was 78° at St. George, on the 15th, and the lowest, -21° at Scofield on the 11th, giving a range for the section of 99° .

The greatest local monthly range was 53° at Loa and Scofield, and the least, 19° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 1.16 inches, which was 0.28 inch below the normal for the State.

The greatest monthly amount was 3.53 inches at Henefer, and the least monthly amount was a 0.00 inch at Green River and Wellington.

The greatest amount of precipitation in any 24 consecutive hours was 1.24 inches at Huntsville, on the 27th.

There was an average of 6 days with 0.01 inch or more of precipitation; 7 over the northern, 6 over the middle, and 5 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4744; at Modena, 7798; at Grand Junction, Colo., 3747; and at Pocatello, Idaho, 6458.

The maximum velocity at Salt Lake City was 30 miles per hour from the southeast on the 23d; at Modena, 45 miles from the southwest on the 6th; at Grand Junction, Colo., 27 miles from the west on the 23d; and at Pocatello, Idaho, 30 miles from the southwest on the 28th.

CLOUDINESS.

The average number of clear days for the section during the month was 12; partly cloudy days, 10; cloudy days, 9.

According to the records of automatic sunshine recorders, Salt Lake City had 53 per cent; Modena 60 per cent; Grand Junction, Colo., 61 per cent; and Pocatello, Idaho, 51 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 58 per cent, the lowest observed reading being 30 per cent on the 1st; at Modena, 73 per cent, the lowest observed reading being 35 per cent on the 11th; at Grand Junction, Colo., 47 per cent, the lowest observed reading being 13 per cent on the 22d and 26th; and at Pocatello, Idaho, 68 per cent, the lowest observed reading being 35 per cent on the 26th.

MISCELLANEOUS PHENOMENA.

Stations and Dates of Occurrence.

Corona, Lunar.—Marysvalle, 5.

Fog.—Heber, 4; Marion, 17, 18; Meadowville, 25; Modena, 5, 9; Nephi, 22; Theodore, 5.

Halos, Lunar.—Hite, 5; Marysvalle, 6; Modena, 6, 26; Moroni, 5; Ogden, 5; Tropic, 3, 31.

Sleet.—Castle Rock, 5, 23, 24, 26, 29, 30; Government Creek, 20-22; Heber, 6, 7; Ibapah, 22, 29; Marion, 5, 17, 21; Meadowville, 27, 28; Moroni, 29; Payson, 18, 19; Saltair Beach, 18, 20; Scofield, 7, 8; Tooele, 5; Tropic, 21, 22.

Hail.—Government Creek, 5; Levan, 7, 30; Marion, 5, 22; Marysvalle, 5, 6, 9, 18; Moroni, 18, 20, 24, 28; Nephi, 7, 29, 30; Pinto, 9; Provo, 23; Salt Lake City, 4, 30; Scofield, 4, 5; Tooele, 4, 16; Tropic, 28; Utah Lake Pumping Station, 6.

Thunderstorms.—Deseret, 16; Farmington, 4; Henefer, 4, 27; Hite, 10, 30; Huntsville, 4; Levan, 16; Logan, 4; Marion, 5; Moab, 5; Moroni, 18; Mt. Pleasant, 17; Ogden, 4; Saltair Beach, 23; Salt Lake City, 4; Utah Lake Pumping Station, 14; Vernal, 30.

High Winds.—Deseret, 3, 4, 6, 9-11, 17, 18, 20, 21, 23, 28-31; Farmington, 9, 10; Ft. Duchesne, 26; Garrison, 3, 4, 19, 21-23, 29; Hite, 20, 27; Marion, 7; Marysvale, 6; Meadowville, 1, 20; Modena, 3, 4, 6, 7, 10, 16, 18-21, 23, 27-29; Moroni, 18, 20, 23, 28; Mt. Nebo, 4; Ogden, 9-11; Ranch, 7, 8; St. George, 6; Salt Lake City, 4, 18, 23; Theodore, 27, 28; Utah Lake Pumping Station, 10, 11, 17, 18, 23.

ERRATA.

December, 1908, report. Page 94.—Corinne, mean maximum should be 38.4°. Page 94.—Milford, should not have reference note; maximum on the 17th should be 31°; mean maximum should be 40.6°; Page 93, mean temperature should be 29.4°. Page 94.—Annabella, maximum on the 18th should be 18°; mean maximum should be 37.7°; Page 93, mean temperature should be 25.6°. Page 94.—Deseret, maximum on the 18th should be 19°; mean maximum should be 36.5°; Page 93, mean temperature should be 22.9°; departure should be -2.1°. Page 94.—Farmington, maximum on the 18th should be 26°; mean maximum should be 37.8°. Page 94.—Logan, maximum on the 18th should be 14°; mean maximum should be 29.1°. Page 94.—Mt. Nebo, maximum on the 18th should be 21°. Page 93.—Hite, total snowfall should be trace.

LATE REPORTS.

For January: Moab, mean temperature, 35.8°; highest, 60° on the 6th and other dates; lowest, 11° on the 1st and other dates; greatest daily range, 38°; total precipitation, 0.94 inch; greatest in 24 hours, 0.44 inch; total snowfall, 2.6 inches; number of rainy days, 7; clear days, 10; partly cloudy days, 2; cloudy days, 19.

For February: Moab, mean temperature, 37.9; highest, 58° on the 19th; lowest, 20° on the 1st and other dates; greatest daily range, 34°; total precipitation, 0.70 inch; greatest in 24 hours 0.16 inch; total snowfall, 0.7 inch; number rainy days, 6; clear days, 10; partly cloudy days, 11; cloudy days, 7.

St. George, mean temperature, 46.0°; highest 72° on the 2d; lowest, 19° on the 23d; greatest daily range, 41°; total precipitation, 1.55 inches; greatest amount in 24 hours, 0.48 inch; number of rainy days, 7; clear days, 21; partly cloudy days, 7; cloudy days, 0. Prevailing wind direction, southwest.

Manti, mean temperature 25.0°; highest, 44° on the 28th; lowest, 1° on the 6th and 23d; greatest daily range, 33°; total precipitation 1.05 inches; greatest in 24 hours, 0.60 inch; total snowfall, 11.5 inches; number of rainy days, 4; clear days, 11; partly cloudy days, 1; cloudy days, 16.

WATER STAGES.

The level of Great Salt Lake on March 1st was 4.2 feet above zero; on March 15th, 4.4 feet above, and on April 1st, 4.6 feet above.

DEPTH OF SNOW IN THE MOUNTAINS AT THE CLOSE OF MARCH, 1909.

The March snowfall was generally quite moist, and it settled very solidly into the mountain gulches and ravines. The in-

frequency of high winds, as a rule, prevented the much-desired drifting, but the rains accompanying or following the snowstorms, compressed the snow-pack to the consistency of ice in nearly every mountain region of the State. The quantity of water in the snow thus stored was great, and the average depth of snow was quite uniformly reported to be greater than in previous years. The valleys of the State were bare, and in several districts the snow had receded well above the foothills. However, the ground was unfrozen and was completely saturated, and the mountain snow supply was being held back, making the prospective water supply apparently the best observed for several years, and assuring a long high water period. The amount of snow was also apparently ample for even late summer uses.

Remarks of Correspondents.

Great Salt Lake Watershed.—West Portage. The snow was well drifted and packed. Lucin. The snow was solidly packed and full of water. Snowville. The snow was packed solidly in the ravines. Hyrum. The snow was solid enough to last a long time. Millville. The snow was solid and the prospects were for more than the necessary amount of water. Newton. The snows have fallen wet and the supply was solid. Randolph. The snow supply was hard and the prospects were for high water this coming season. Layton. The mountain snow supply was well packed and drifted, and the prospects were better than for several seasons.

Serier Lake Watershed.—Levan. The snow was drifted and well packed, and very little had melted. Kanosh. The snow was moist when it fell, and was densely packed. Deseret. There was more snow than usual. Moroni. The snow was well packed and the prospective water supply was the best in years. Manti. The mountain snow was packed very hard. Scipio. The water prospects were better than for years. Annabella. The snow was solid and well drifted. Richfield. There was plenty of snow and it was well drifted. Marysvale. The snow was solid and very well drifted. Pinto. Very little snow fell, and it melted as it fell. Springdale. Snow was plentiful, and the outlook for water was good.

Green and Colorado Rivers Watershed.—Vernal. The snow was packed very solid and was very wet. Ft. Duchesne. The snow was disappearing very rapidly from the foothills. Escalante. The snow was well packed and drifted. Tropic. The snow was solid and well packed in the mountains, and an abundance of water was assured. Ranch. The snow was very deep and well drifted, being in good condition to keep.

COMPARATIVE STATE DATA FOR MARCH.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1892 | 40.0 | 83 | 4 | 1.52 |
| 1893 | 35.6 | 87 | -19 | 2.05 |
| 1894 | 36.6 | 85 | -22 | 1.66 |
| 1895 | 37.0 | 87 | -15 | 1.84 |
| 1896 | 38.0 | 88 | -7 | 0.99 |
| 1897 | 32.9 | 79 | -16 | 2.88 |
| 1898 | 34.2 | 80 | -14 | 1.24 |
| 1899 | 38.5 | 84 | -3 | 2.46 |
| 1900 | 43.9 | 86 | 6 | 0.19 |
| 1901 | 36.8 | 78 | -3 | 0.84 |
| 1902 | 34.9 | 73 | -9 | 1.28 |
| 1903 | 37.3 | 80 | -32 | 1.19 |
| 1904 | 39.9 | 90 | -10 | 2.33 |
| 1905 | 42.2 | 83 | 0 | 1.76 |
| 1906 | 38.0 | 86 | -34 | 3.14 |
| 1907 | 42.4 | 87 | -2 | 1.65 |
| 1908 | 39.8 | 90 | -20 | 1.10 |
| 1909 | 37.4 | 78 | -21 | 1.16 |

CLIMATOLOGICAL DATA, MARCH, 1909.

| Stations | Counties | Elevation, feet | Length of record, years | Temperature, in degrees Fahrenheit | | | | | | Precipitation, in inches | | | | | Sky | | | | Observers | | |
|---------------------|------------|-----------------|-------------------------|------------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|-------------------------|-------------------------------------|-------------------|---------------------------|----------------------|-----------|------------------------------|------------------|
| | | | | Mean | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily fall | Total | Departure from the normal | Greatest in 24 hours | Total snowfall in month | Days with at least one inch of rain | Number clear days | Number partly cloudy days | Number overcast days | | Prevailing direction of wind | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 13 | | | | | | | | 2.40 | 0.50 | 0.40 | 11.0 | 13 | 10 | 7 | 14 | ne. | T. B. Whitby. | |
| Castle Rock | Summit | | 6 | | | | | | | | 0.25 | 1.20 | 0.20 | 2.0 | 2 | 9 | 14 | 8 | sw. | David Moore. | |
| Corinne | Boxelder | 4,240 | 30 | 42.2 | + 2.2 | 65 | 18 | 18 | *9 | 38 | 0.25 | 1.20 | 0.20 | 2.0 | 2 | 9 | 14 | 8 | sw. | Agent So. Pacific R. R. | |
| Drumming | Davis | 4,267 | 9 | 40.0 | - 0.3 | 58 | 2 | 16 | 11 | 9 | 1.74 | 0.89 | 0.60 | 16.3 | 7 | 18 | 9 | 7 | nw. | Charles Boylin. | |
| Duchesne | Uinta | 5,000 | 21 | 27.2 | - 0.0 | 58 | 26 | -14 | 1 | 47 | 0.40 | -0.27 | 0.40 | T | 1 | 26 | 9 | 8 | nw. | Post Surgeon. | |
| Drantsville (near) | Tooele | | 4 | | | | | | | | | | | | | | | | | A. J. Fraser. | |
| Elber | Wasatch | 5,606 | 16 | 33.0 | - 0.7 | 52 | *4 | -6 | 12 | 36 | 1.31 | -1.03 | 0.35 | 11.0 | 11 | 9 | 10 | 12 | s. | John Crook. | |
| Emery | Summit | 5,301 | 10 | 33.8 | - 1.5 | 56 | *2 | 5 | 12 | 49 | 3.53 | -1.13 | 0.91 | 16.8 | 12 | 9 | 10 | 12 | w. | William Brewer. | |
| Henrieville | Weber | 5,100 | 14 | | | | | | | | 3.42 | +0.65 | 1.24 | 17.0 | 8 | 10 | 11 | 10 | | Lars Petersen. | |
| Helton | Boxelder | 4,230 | 31 | 37.4 | + 2.6 | 57 | *16 | 15 | 13 | 30 | 0.30 | -0.22 | 0.30 | 3.0 | 1 | 6 | 24 | 1 | sw. | Agent So. Pacific R. R. | |
| Hogan | Cache | 4,507 | 18 | | | | | | | | 2.01 | -0.01 | | | 7 | | | | | Agricultural College. | |
| Hudson | Boxelder | | 5 | 38.2 | | 66 | *3 | 1 | 11 | 36 | 0.07 | | 0.05 | T | 2 | | | | | C. J. Burke. | |
| Hudsonville | Summit | 6,200 | 10 | 27.1 | - 1.9 | 46 | 4 | 0 | 12 | 31 | 1.98 | -1.04 | 0.53 | 19.5 | 12 | 8 | 6 | 17 | sw. | J. Woolstenhulme. | |
| Idaho | Cache | 4,848 | 14 | | | | | | | | 2.00 | +0.03 | 1.00 | 16.0 | 8 | 15 | 3 | 13 | w. | J. S. Moffat. | |
| Idaho | Morgan | 5,080 | 6 | 34.6 | - 2.4 | 54 | 26 | 2 | 12 | 36 | 2.27 | +0.15 | 0.52 | | 14 | | | | | Fred Yeates. | |
| Idaho No. 1 | Weber | 4,310 | 8 | 39.4 | - 0.8 | 56 | 17 | 14 | 12 | 24 | 3.90 | +1.09 | 1.55 | 15.5 | 7 | 5 | 12 | 9 | nw. | W. Visick. | |
| Idaho No. 2 | Weber | 4,310 | 39 | 42.0 | + 0.5 | 61 | *4 | 26 | 11 | | 2.15 | -0.71 | 0.55 | 4.0 | 11 | 15 | 10 | 6 | nw. | Lincoln Fair. | |
| Idaho City | Summit | 7,800 | 12 | | | | | | | | 1.91 | 0.12 | 0.55 | T | 13 | 10 | 12 | 9 | w. | W. H. Chevers. | |
| Idaho County | Boxelder | | 2 | | | | | | | | 0.90 | 0.13 | 0.40 | 9.0 | 3 | | | | | Prof. A. D. Griffin. | |
| Idaho Falls | Rich | | 6 | | | | | | | | 0.05 | -0.43 | 0.15 | | 7 | 16 | 0 | 15 | sw. | F. C. Houghton. | |
| Idaho Falls | Salt Lake | | 6 | 40.0 | - 0.4 | 54 | *4 | 22 | 12 | 19 | 0.01 | 0.01 | 0.78 | 2.0 | 9 | | | | | Win. Rex. | |
| Idaho Falls | Salt Lake | 4,366 | 35 | 41.4 | - 0.1 | 60 | 16 | 19 | 14 | 26 | 2.85 | +0.85 | 0.76 | 11.0 | 12 | 9 | 11 | 11 | se. | E. J. Bench. | |
| Idaho Falls | Salt Lake | | 3 | | | | | | | | | | | | | | | | | Section Center. | |
| Idaho Falls | Boxelder | 4,360 | 19 | 35.6 | - 0.3 | 59 | 15 | 12 | 11 | 37 | 1.00 | -0.70 | 0.50 | | 4 | 18 | 10 | 3 | s. | N. J. Ferber. | |
| Idaho Falls | Wasatch | | 5 | 26.6 | | 45 | 10 | 2 | 12 | 31 | 1.85 | -0.40 | 0.40 | 18.5 | 10 | 7 | 6 | 18 | | Joseph Robbins. | |
| Idaho Falls | Wasatch | 5,507 | 4 | 27.6 | | 55 | 25 | 2 | 1 | 43 | 0.15 | -0.10 | 0.10 | 1.5 | 2 | 18 | 11 | 2 | | U. S. Reclamation Service. | |
| Idaho Falls | Tooele | 4,900 | 13 | 29.4 | - 0.4 | 59 | *3 | 16 | 12 | 27 | 2.75 | +0.62 | 0.90 | 12.0 | 7 | 4 | 5 | 22 | n. | M. M. Smith. | |
| Idaho Falls | Uinta | 4,310 | 14 | 29.8 | - 0.2 | 53 | *26 | 2 | 1 | 30 | 0.16 | -0.77 | 0.16 | 0.0 | 1 | 21 | 7 | 3 | ne. | E. A. Bonelli. | |
| Idaho Falls | Rich | 6,500 | 12 | | | | | | | | 1.60 | +0.14 | | 10.8 | 7 | 13 | 9 | 9 | sw. | James Collier. | |
| Averages | | | | 35.9 | - 1.8 | | | | | | | | | | | | | | | John Stuart. | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | |
| Annabella [near] S. | Sevier | | 4 | 40.0 | | 66 | 22 | 14 | 12 | 42 | 1.25 | -0.08 | 0.81 | 8.5 | 7 | 4 | 24 | 3 | n. | J. W. Fairbanks. | |
| Black Rock | Millard | 4,872 | 9 | | | | | | | | | | | | | | | | | A. H. Cassell. | |
| Black Dale | Emery | 5,500 | 10 | 36.6 | - 1.5 | 60 | 25 | 5 | 1 | 37 | T | -0.45 | T | | 0 | 17 | 14 | 0 | w. | James Jells. | |
| Bonnet | Millard | 4,541 | 15 | 39.2 | - 1.3 | 62 | 15 | 14 | 12 | 40 | 0.99 | 0.00 | 0.37 | 9.0 | 6 | 10 | 10 | 11 | s. | S. W. Western. | |
| Bonnet | Uinta | | 2 | | | | | | | | | | | | | | | | | H. J. Cooper. | |
| Bonnet | Emery | 6,260 | 9 | 37.6 | 0.0 | 57 | 4 | 11 | 11 | 35 | T | -0.37 | T | | 8 | 5 | 4 | 22 | n. | H. C. Wickman. | |
| Bonnet | Millard | 5,100 | 19 | 42.0 | + 1.0 | 68 | 2 | 17 | 12 | 36 | 1.23 | -0.75 | 0.62 | | 8 | | | | | J. J. Starley. | |
| Bonnet | Millard | | 6 | 40.6 | - 0.7 | 69 | 17 | 11 | 14 | 57 | 0.43 | -0.35 | 0.27 | | 3 | 12 | 3 | 13 | n. | E. M. Smith. | |
| Bonnet | Tooele | 5,277 | 9 | 37.7 | - 0.1 | 59 | 10 | 9 | 10 | 39 | 1.70 | -0.75 | 0.60 | 9.0 | 9 | 10 | 7 | 14 | s. | Walter James. | |
| Bonnet | Emery | 4,080 | 12 | 45.4 | + 1.4 | 68 | *15 | 18 | *12 | 45 | 0.00 | -0.36 | 0.00 | 0.0 | 0 | 19 | 7 | 0 | s. | J. H. Fritz. | |
| Bonnet | Tooele | 7,500 | 4 | 36.8 | + 1.9 | 65 | 2 | 3 | 12 | 46 | 1.46 | -0.23 | 0.90 | 16.0 | 5 | 10 | 13 | 2 | n. | E. S. Gamvett. | |
| Bonnet | Millard | | 3 | | | | | | | | 1.77 | -0.76 | 0.76 | | 8 | | | | | Geo. Crane. | |
| Bonnet | Juab | 5,010 | 19 | 37.5 | - 0.9 | 59 | 16 | 13 | 12 | 31 | 1.19 | -1.02 | 0.42 | 8.3 | 8 | 15 | 5 | 11 | sw. | William Brown. | |
| Bonnet | Sanpete | 5,575 | 15 | 34.0 | - 4.0 | 54 | 17 | 11 | 11 | 28 | 0.80 | -0.88 | 0.28 | | 6 | 8 | 15 | 18 | sw. | J. M. Anderson. | |
| Bonnet | Sanpete | | | | | | | | | | 0.79 | -0.24 | 0.24 | 1.2 | 8 | 2 | 24 | 5 | sw. | B. F. Eliason. | |
| Bonnet | Utah | 4,650 | 8 | 39.5 | - 1.3 | 61 | 17 | 13 | 12 | 39 | 0.92 | -0.75 | 0.28 | | 7 | 16 | 12 | 3 | n. | D. C. Walkey. | |
| Bonnet | Sanpete | 5,859 | 17 | 37.0 | - 0.6 | 57 | 21 | 10 | *9 | 38 | 0.20 | -0.20 | 0.20 | 2.0 | 1 | 3 | 6 | 2 | sw. | Miss Jane Martin. | |
| Bonnet | Juab | | 6 | | | | | | | | 1.11 | -1.50 | 0.38 | 6.0 | 9 | 14 | 11 | 6 | sw. | A. Madsen. | |
| Bonnet | Millard | | 5 | | | | | | | | | | | | | | | | | J. Finlinson. | |
| Bonnet | Utah | 4,637 | 6 | | | | | | | | 2.66 | -0.59 | 0.74 | 6.0 | 11 | 6 | 13 | 12 | sw. | D. L. Coombs. | |
| Bonnet | Utah | 4,532 | 17 | 40.9 | + 0.8 | 65 | 16 | 14 | 12 | 38 | 1.24 | -0.49 | 0.30 | 1.1 | 10 | 10 | 10 | 5 | n. | James A. Oliver. | |
| Bonnet | Sevier | 5,350 | 19 | 38.8 | - 1.0 | 66 | 3 | 15 | 12 | 43 | 0.50 | -0.59 | 0.45 | 2.5 | 2 | 15 | 0 | 16 | sw. | J. J. Jensen. | |
| Bonnet | Millard | 5,260 | 14 | 38.2 | - 0.1 | 67 | 17 | 11 | 12 | 42 | 1.41 | -0.82 | 0.36 | 6.0 | 9 | 7 | 11 | 13 | sw. | Thomas Memmott. | |
| Bonnet | Carbon | | | 21.2 | | 47 | 2 | -21 | 11 | 53 | 2.47 | | 0.82 | | 5 | 23 | 2 | 6 | | O. E. Jorgensen. | |
| Bonnet | Utah | 7,474 | 17 | | | | | | | | | | | | | | | | | Agent Rio Grande R. R. | |
| Bonnet | Carbon | | 5 | | | | | | | | 0.80 | -0.79 | 0.20 | 8.0 | 7 | | | | | Henry Cullum. | |
| Bonnet | Utah | 5,075 | 17 | 36.9 | - 0.7 | 60 | 1 | 10 | 1 | 50 | 0.07 | -1.73 | 0.01 | | 7 | 14 | 9 | 8 | | Ag't. Rio Grande W. R. R. | |
| Bonnet | Juab | | 5 | | | | | | | | | | | | | | | | | Frank Parker. | |
| Bonnet | Utah | | 5 | 38.6 | | 57 | *15 | 15 | 12 | 32 | 1.24 | -0.15 | 0.37 | 1.0 | 8 | 10 | 16 | 5 | | W. A. Knight. | |
| Bonnet | Carbon | 5,540 | 10 | 30.0 | - 8.4 | 57 | 26 | - 4 | 1 | 42 | 0.00 | -0.53 | 0.00 | 0.0 | 0 | 6 | 10 | 12 | 9 | sw. | Melville Branch. |
| Averages | | | | 37.4 | - 1.3 | | | | | | 1.00 | -0.69 | | 5.2 | 6 | 10 | 12 | 9 | sw. | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Bonnet | San Juan | 4,800 | 9 | | | | | | | | | | | | | | | | | James Connell. | |
| Bonnet | Beaver | | 6 | 37.2 | - 3.2 | 61 | 15 | 10 | 12 | 36 | 1.38 | -0.21 | 0.50 | 8.8 | 9 | 11 | 15 | 5 | sw. | J. M. Foster. | |
| Bonnet | Iron | 4,387 | 4 | 38.7 | - 4.5 | 61 | 15 | 13 | 12 | 32 | 0.63 | -0.96 | 0.43 | 5.1 | 5 | 6 | 11 | 14 | ne. | Mrs. E. Clayton. | |
| Bonnet | Garfield | | 8 | | | | | | | | | | | | | | | | | John Day. | |
| Bonnet | Washington | | 4 | | | | | | | | 1.27 | -1.94 | 0.32 | 46.2 | 7 | 8 | 13 | 10 | s. | Geo. H. Barney. | |
| Bonnet | Garfield | 5,700 | 9 | 38.4 | - 2.5 | 63 | 2 | 10 | 12 | 40 | 0.23 | -1.05 | 0.23 | | 1 | 16 | 0 | 15 | | Joseph T. Atkins. | |
| Bonnet | Washington | | 6 | | | | | | | | | | | | | | | | | E. R. Smyth. | |
| Bonnet | Beaver | 7,318 | 15 | 35.6 | - 2.9 | 57 | 16 | 11 | 12 | 27 | 1.08 | +0.30 | 1.00 | 10.0 | 2 | | | | | Joseph A. Lyman. | |
| Bonnet | San Juan | | 5 | 36.9 | - 5.7 | 65 | 16 | 14 | 23 | 42 | 0.90 | -1.03 | 0.90 | 9.0 | 1 | 23 | 1 | 7 | s. | J. P. Hite. | |
| Bonnet | Garfield | 3,000 | 10 | 48.7 | - 2.3 | 70 | *2 | 28 | 11 | 38 | 0.43 | -0.22 | 0.27 | 3.0 | 4 | 14 | 13 | 4 | w. | W. J. F. McAllister. | |
| Bonnet | Kane | 4,925 | 9 | | | | | </ | | | | | | | | | | | | | |

TOTAL PRECIPITATION, MARCH, 1909.



SCALE OF SHADES-IN INCHES



Day of month.

‡ Distribution not known.

551.05
7N6

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR APRIL, 1909.

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

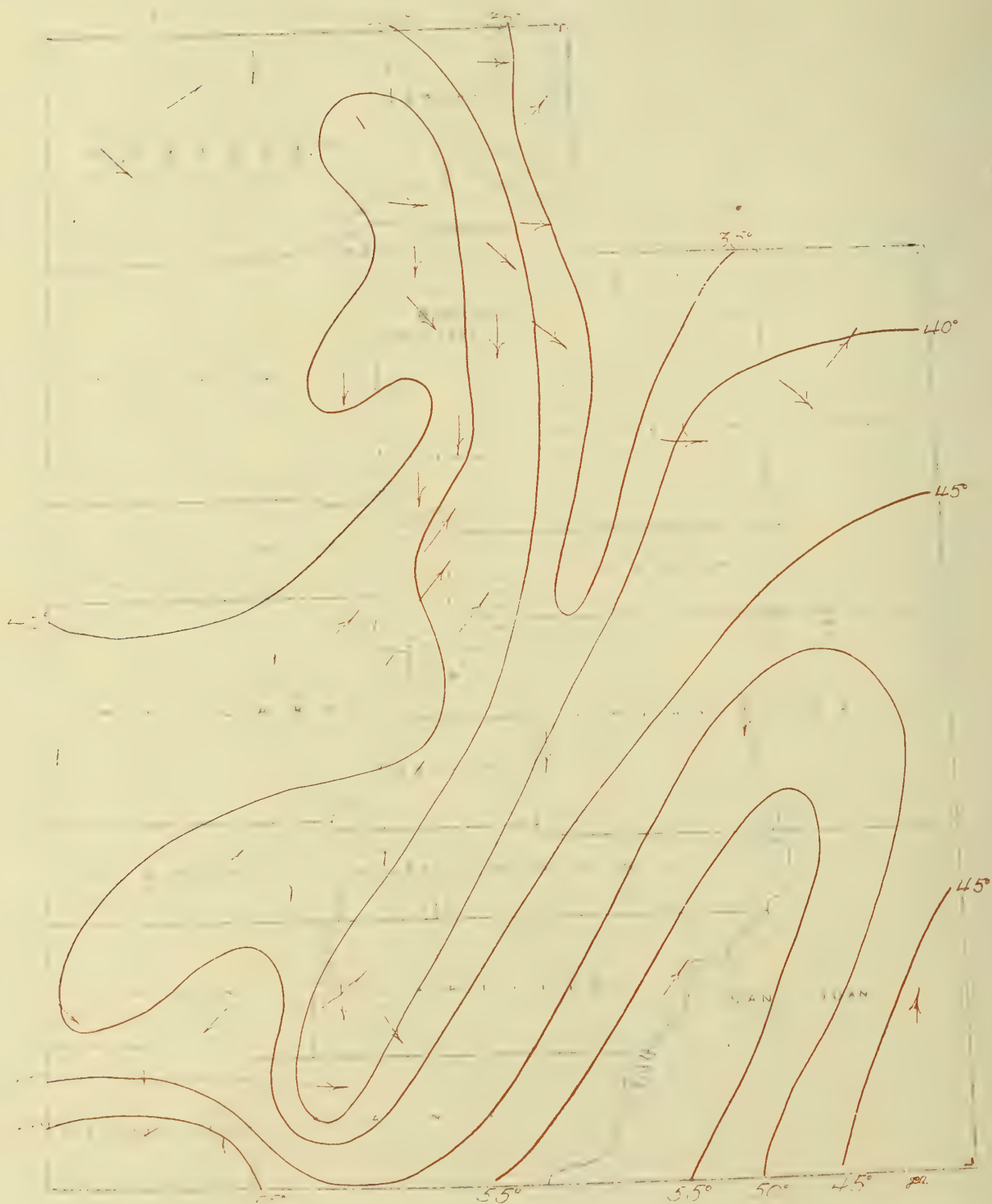
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

MAY 15, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, APRIL, 1909.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

Vol. XI. SALT LAKE CITY, UTAH, APRIL, 1909. No. 4

GENERAL SUMMARY.

Cold weather prevailed during the month with considerable cloudiness, tho precipitation was unevenly and irregularly distributed. April, 1896, was the only one in which State temperatures averaged appreciably lower than this month; and April in 1895, 1898 and 1907 was about five degrees warmer. Twelve Aprils have averaged drier over Utah and five wetter, since 1891, tho the departures at the long record stations indicate that this month is considerably below the true average.

The Colorado river valley and most of Washington county contain the highest isotherms, and the Wasatch and Uinta mountain stations from the northern to the southern extremities of the State are surrounded by the lowest temperature lines. The lowest temperatures occurred principally at the close of the first week; a secondary cold period occurred at the close of the month. The maximum temperatures occurred quite generally on the 16th and 17th.

Only the central mountain regions received any precipitation of importance. The middle portion of the State averaged nearly half an inch above normal, while the northern and southern portions averaged as much below. The stormy periods were not well defined, neither were they of much importance as a rule, tho the fall of several inches of snow at the close of the last decade was quite an unusual phenomenon. The last day of the month was marked by a general and somewhat damaging freeze.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 56 stations, was 44.7°, which was 3.5° below the normal.

The highest local monthly mean was 58.8° at St. George, and the lowest was 31.9° at Scofield.

The highest temperature recorded was 87° at St. George, on the 15th and 16th, and the lowest, —2° at Strawberry Valley on the 4th, giving a range for the section of 89°.

The greatest local monthly range was 55° at Ibapah, and the least, 25° at Saltair Beach.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 1.13 inches, which was 0.22 inch below the normal for the State.

The greatest monthly amount was 7.49 inches at Scofield, and the least monthly amount was a 0.00 inch at Kelton and Loa.

The greatest amount of precipitation in any 24 consecutive hours was 2.48 inches at Scofield, on the 30th.

There was an average of 5 days with 0.01 inch or more of

NORMAL PRECIPITATION FOR NORTHERN UTAH.

| Stations. | Counties. | Elevation. | Length of record, years. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Annual. |
|-----------------|-----------|------------|--------------------------|----------|-----------|--------|--------|-------|-------|-------|---------|------------|----------|-----------|-----------|---------|
| Alpine | Utah | 4,900 | 13 | 1.43 | 2.05 | 2.28 | 2.06 | 2.93 | 0.79 | 0.67 | 1.43 | 1.28 | 1.40 | 1.41 | 1.26 | 18.09 |
| Castle Rock | Summit | 6,244 | 6 | 1.30 | 1.54 | 1.90 | 1.32 | 2.86 | 1.19 | 0.70 | 1.84 | 0.67 | 1.23 | 0.57 | 0.96 | 16.08 |
| Corinne | Boxelder | 4,240 | 39 | 1.32 | 1.20 | 1.45 | 1.14 | 1.40 | 0.60 | 0.43 | 0.57 | 0.66 | 1.02 | 0.97 | 1.55 | 12.31 |
| Farmington | Davis | 4,267 | 9 | 2.24 | 2.63 | 2.63 | 1.98 | 3.29 | 1.95 | 0.37 | 0.60 | 1.24 | 1.34 | 1.51 | 1.79 | 21.03 |
| Ft. Duchesne | Uinta | 5,000 | 21 | 0.38 | 0.43 | 0.67 | 0.58 | 0.82 | 0.27 | 0.49 | 0.72 | 1.21 | 0.58 | 0.36 | 0.55 | 7.06 |
| Grantsville | Tooele | 4 | 0.88 | 0.70 | 1.28 | 0.86 | 2.32 | 1.18 | 0.53 | 1.67 | 1.32 | 1.00 | 0.80 | 1.03 | 13.57 | |
| Heber | Wasatch | 5,606 | 16 | 2.04 | 2.10 | 2.34 | 1.25 | 1.74 | 0.59 | 0.80 | 0.97 | 0.98 | 1.27 | 1.30 | 1.63 | 17.01 |
| Henefer | Summit | 5,301 | 10 | 2.02 | 2.22 | 2.40 | 1.54 | 2.16 | 0.77 | 0.57 | 1.14 | 1.14 | 1.14 | 1.49 | 1.60 | 18.19 |
| Huntsville | Weber | 5,100 | 14 | 2.65 | 2.50 | 2.77 | 1.83 | 2.30 | 0.92 | 0.33 | 0.89 | 0.87 | 1.69 | 1.78 | 1.82 | 20.35 |
| Kelton | Boxelder | 4,230 | 31 | 0.63 | 0.62 | 0.52 | 0.76 | 0.79 | 0.39 | 0.36 | 0.20 | 0.41 | 0.49 | 0.30 | 0.73 | 6.20 |
| Logan | Cache | 4,507 | 18 | 1.44 | 1.30 | 2.00 | 1.73 | 2.44 | 0.86 | 0.42 | 0.80 | 1.07 | 1.26 | 1.14 | 1.02 | 15.48 |
| Marion | Boxelder | 4,504 | 5 | ..... | ..... | ..... | 0.25 | ..... | 0.65 | 0.37 | 0.38 | 0.42 | 0.20 | ..... | ..... | ..... |
| Meadowville | Summit | 6,750 | 5 | 2.47 | 2.14 | 3.02 | 1.70 | 3.18 | 1.50 | 0.63 | 1.81 | 1.07 | 0.26 | 1.60 | 2.22 | 21.60 |
| Millville | Rich | 6,200 | 10 | 2.31 | 2.19 | 1.97 | 2.04 | 2.16 | 1.01 | 0.49 | 1.07 | 1.05 | 1.39 | 1.11 | 1.11 | 17.90 |
| Morgan | Cache | 4,848 | 14 | 1.52 | 1.22 | 2.12 | 3.48 | 2.35 | 0.92 | 0.38 | 0.93 | 1.02 | 1.58 | 1.47 | 1.05 | 18.04 |
| Ogden No. 1 | Morgan | 5,080 | 6 | 2.33 | 2.25 | 2.81 | 1.14 | 3.12 | 0.80 | 0.64 | 1.35 | 0.98 | 1.61 | 1.42 | 1.70 | 20.15 |
| Ogden No. 2 | Weber | 4,310 | 8 | 2.20 | 2.22 | 2.86 | 2.03 | 3.11 | 1.38 | 0.25 | 1.15 | 0.93 | 1.47 | 1.33 | 1.65 | 20.98 |
| Park City | Summit | 4,310 | 39 | 1.58 | 1.60 | 1.79 | 1.38 | 1.79 | 0.69 | 0.22 | 0.57 | 0.73 | 1.31 | 1.16 | 1.01 | 14.43 |
| Promontory | Boxelder | 7,800 | 12 | 3.27 | 2.84 | 3.90 | 1.81 | 1.76 | 0.62 | 0.82 | 0.91 | 0.86 | 2.06 | 1.90 | 1.95 | 22.70 |
| Randolph | Rich | 4,913 | 2 | 0.97 | 0.82 | 0.77 | 0.67 | 0.81 | 0.51 | 0.20 | 0.34 | 0.60 | 0.57 | 0.52 | 0.82 | 7.60 |
| Salt Lake Beach | Salt Lake | 6,442 | 6 | 0.64 | 0.52 | 1.08 | 1.21 | 1.62 | 1.27 | 0.78 | 1.45 | 1.12 | 0.64 | 0.28 | 0.63 | 11.24 |
| Salt Lake City | Salt Lake | 4,366 | 35 | 1.35 | 1.38 | 2.00 | 2.26 | 1.95 | 0.77 | 0.54 | 0.78 | 0.85 | 1.40 | 1.42 | 1.33 | 16.03 |
| Snowville | Boxelder | 4,360 | 19 | 1.26 | 0.87 | 1.70 | 1.18 | 1.50 | 0.68 | 0.37 | 0.38 | 0.50 | 1.08 | 0.82 | 1.09 | 11.43 |
| Theodore | Wasatch | 5,597 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.92 | 0.99 | 0.95 | 0.71 | ..... |
| Tooele | Tooele | 4,900 | 13 | 1.19 | 1.24 | 2.13 | 1.72 | 2.63 | 0.76 | 0.46 | 0.93 | 0.87 | 1.35 | 1.53 | 0.98 | 15.70 |
| Vernal (near) | Uinta | 5,050 | 14 | 0.61 | 0.65 | 0.93 | 0.78 | 1.12 | 0.39 | 0.74 | 0.63 | 1.28 | 0.86 | 0.84 | 0.64 | 9.47 |
| Woodruff | Rich | 6,500 | 12 | 0.71 | 0.98 | 1.38 | 0.93 | 1.30 | 0.52 | 0.39 | 0.56 | 0.66 | 0.97 | 0.28 | 0.99 | 9.73 |

precipitation; 5 over the northern, 6 over the middle, and 3 over the southern section.

WIND.

The prevailing direction for the section was north.

The total number of miles recorded at Salt Lake City was 5369; at Modena, 8738; at Grand Junction, Colo., 4434; and at Pocatello, Idaho, 7938.

The maximum velocity at Salt Lake City was 37 miles per hour from the northwest on the 10th; at Modena, 44 miles from the southwest on the 10th; at Grand Junction, Colo., 30 miles from the northwest on the 4th; and at Pocatello, Idaho, 44 miles from the southwest on the 3d.

CLOUDINESS.

The average number of clear days for the section during the month was 14; partly cloudy days, 8; cloudy days, 8.

According to the records of automatic sunshine recorders, Salt Lake City had 61 per cent; Modena 77 per cent; Grand Junction, Colo., 58 per cent; and Pocatello, Idaho, 68 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 47 per cent, the lowest observed reading being 14 per cent on the 9th; at Modena, 55 per cent, the lowest observed reading being 18 per cent on the 30th; at Grand Junction, Colo., 50 per cent, the lowest observed reading being 8 per cent on the 17th; and at Pocatello, Idaho, 54 per cent, the lowest observed reading being 24 per cent on the 29th.

MISCELLANEOUS PHENOMENA.

Stations and Dates of Occurrence.

Sleet.—Beaver, 28; Castle Rock, 11; Henefer, 11, 28; Huntsville, 11, 23; Marion, 28; Morgan, 11, 12, 24, 27-29; Moroni, 4, 6, 8, 19; Panguitch, 4; Promontory, 29; Scofield, 23, 24, 28, 30; Sunnyside, 6, 19, 20, 21; Tropic, 4; Utah Lake Pumping Station, 19.

Hail.—Beaver, 20; Castle Rock, 28; Ft. Duchesne, 20, 25; Garland, 11, 29; Government Creek, 5, 6, 11, 28, 29; Henefer, 11, 20, 28; Ibapah, 5, 17, 28; Levan, 11, 19, 28; Marysvale, 11, 19, 21; Meadowville, 21; Moab, 19; Modena, 19; Moroni, 4-6, 11, 12, 19, 21, 28, 29; Nephi, 28; Ogden, 11, 28, 29; Pinto, 19; Saltair Beach, 12; Salt Lake City, 28; Scipio, 19; Schofield, 30; Tooele, 5, 28; Utah Lake Pumping Station, 28; Vernal, 20, 29.

Thunderstorms.—Beaver, 19; Castle Rock, 27; Deseret, 27, 28; Farmington, 27, 29; Garland, 27; Government Creek, 19, 27; Heber, 27; Henefer, 17, 27; Hite, 19; Huntsville, 11, 27; Ibapah, 17, 27, 28; Levan, 11, 28; Marion, 27, 28, 30; Marysvale, 18, 19; Moab, 18-21; Modena, 19; Moroni, 19, 28; Nephi, 19, 28; Ogden, 27, 28; Panguitch, 19; Pinto, 19; Provo, 29; Ranch, 18, 19; Salt Lake City, 29; Utah Lake Pumping Station, 11, 29; Vernal, 20.

High Winds.—Deseret, 3-7, 10, 17, 21, 23, 27, 29; Ft.

Duchesne, 11, 14-16, 20; Garrison, 1, 3, 5-7, 9, 17, 27, 28; Garland, 13-17, 22-28; Grayson, 27, 28; Government Creek, 4, 10, 17; Heber, 10; Hite, 10, 27, 29; Levan, 3, 10; Lucin, 6-14, 20, 21, 29; Manti, 27; Marion, 19; Marysvale, 4, 5, 10, 27, 30; Meadowville, 13, 26; Modena, 2-7, 10-13, 15-17, 19-21, 23, 24, 27-29; Morgan, 9, 18, 20-23; Moroni, 3, 6, 24, 27, 29; Mt. Nebo, 3, 10; Nephi, 3, 10, 17; Ranch, 30; Richfield, 27; St. George, 6; Salt Lake City, 4, 6, 10, 18, 20, 21; Scipio, 10, 11, 19, 27; Sunnyside, 3, 7, 10, 17, 29; Theodore, 4-6, 10, 13-15, 28-30; Tropic, 3, 6, 11, 19, 20, 27-29; Utah Lake Pumping Station, 3, 6, 11, 14, 18, 19, 21, 27.

LATE REPORTS.

For February: Ogden No. 2, mean temperature, 33.1°; departure, -0.1°; highest 52° on the 3d and other dates; lowest, 20° on the 6th; total precipitation, 2.53 inches; departure, +0.93; greatest amount in 24 hours, 0.79 inch; total snowfall, 13.0 inches; number of rainy days, 11; clear days, 4; partly cloudy days, 6; cloudy days, 18. Prevailing wind direction, south.

For March: Dragon, mean temperature 34.6°; highest, 63° on the 25th; lowest, 9° on the 1st and 11th; greatest daily range, 44°; total precipitation 0.90 inch; greatest in 24 hours, 0.40 inch; total snowfall, 9.0 inches; number of rainy days, 3; clear days, 16; partly cloudy days, 0; cloudy days, 15.

Parowan, mean temperature, 39.0°; departure +0.3°; highest, 65° on the 15th; lowest, 18° on the 9th; greatest daily range, 38°; total precipitation, 1.16 inches; greatest in 24 hours 0.30 inch; total snowfall, 10.6 inches; number of rainy days, 9; clear days, 16; partly cloudy days, 0; cloudy days, 15.

Experiment Farm, mean temperature, 47.2°; departure, -3.6°; highest, 75° on the 15th; lowest, 22° on the 11th; greatest daily range, 41°; number of clear days, 10; partly cloudy days, 10; cloudy days, 11.

WATER STAGES.

The level of Great Salt Lake on April 1st was 4.6 feet above zero; on April 15th, 4.7 feet above, and on May 1st, 4.8 feet above.

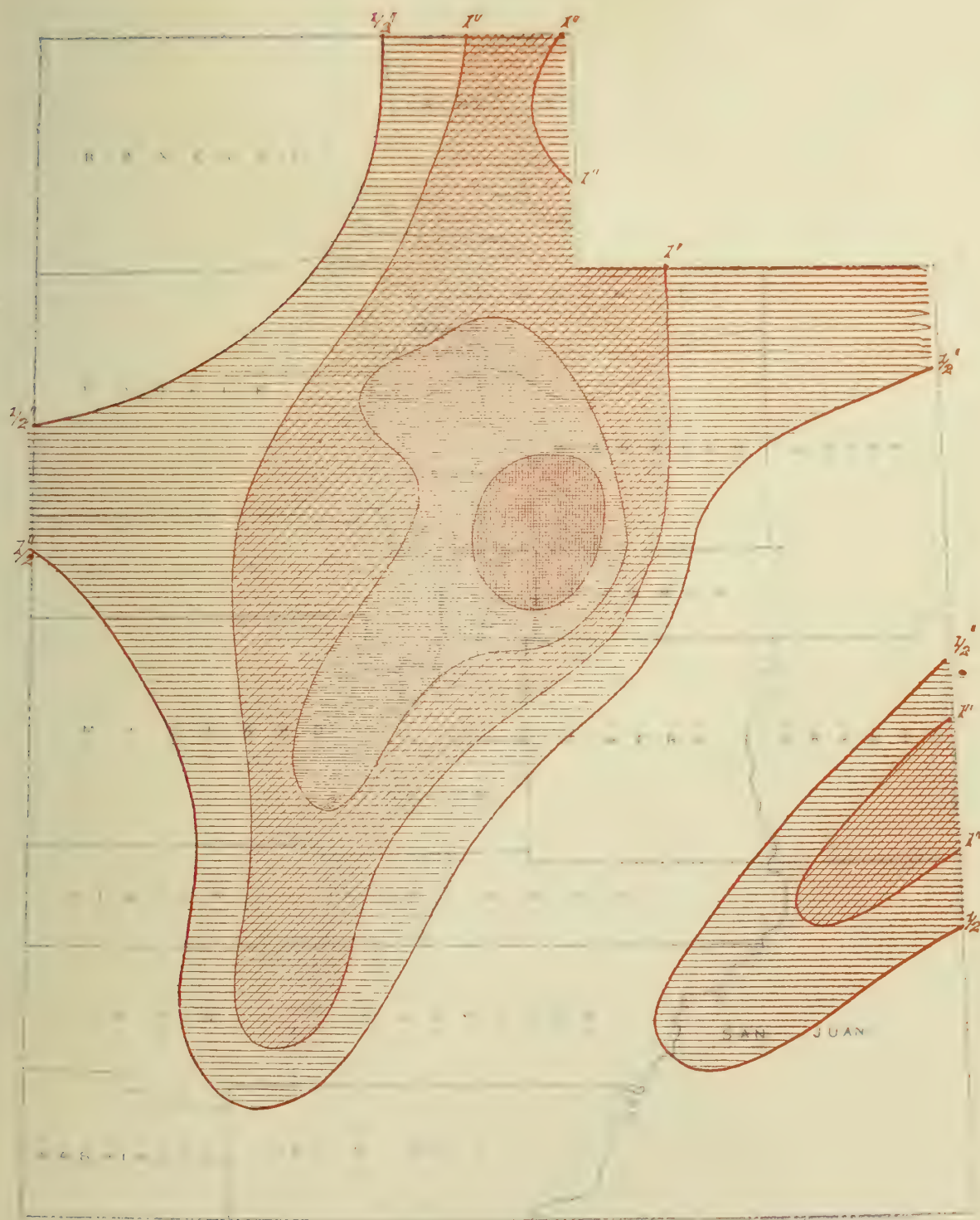
COMPARATIVE STATE DATA FOR APRIL.

| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1892 | 46.8 | 87 | 11 | 1.06 |
| 1893 | 44.4 | 88 | 1 | 1.15 |
| 1894 | 45.8 | 91 | 4 | 0.86 |
| 1895 | 49.2 | 94 | 5 | 0.58 |
| 1896 | 41.0 | 87 | 1 | 1.07 |
| 1897 | 47.0 | 93 | 6 | 0.89 |
| 1898 | 51.5 | 98 | 8 | 0.72 |
| 1899 | 48.2 | 90 | 11 | 0.58 |
| 1900 | 45.7 | 88 | 10 | 2.46 |
| 1901 | 46.2 | 89 | 0 | 0.69 |
| 1902 | 48.5 | 94 | 7 | 1.16 |
| 1903 | 46.0 | 95 | 4 | 1.01 |
| 1904 | 48.2 | 94 | 10 | 0.76 |
| 1905 | 48.7 | 88 | 9 | 1.47 |
| 1906 | 48.0 | 94 | 5 | 2.10 |
| 1907 | 50.6 | 95 | 2 | 0.96 |
| 1908 | 49.4 | 89 | 1 | 0.49 |
| 1909 | 44.7 | 87 | 2 | 1.13 |

CLIMATOLOGICAL DATA, APRIL, 1909.

| Stations | Counties | Elevation, feet | Length of record, years | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches | | | | Sky | | | | Prevailing direction of wind | Observers | | |
|--------------------|------------|-----------------|-------------------------|-------------------------------------|----------------------------|---------|------|--------|------|--------------------------|-------|----------------------------|----------------------|--------------------------|---|-------------------|---------------------------|------------------------------|-------------|----------------------------|-----------------------|
| | | | | Mean. | Departure from the normal. | Highest | Date | Lowest | Date | Greatest daily range | Total | Departure from the normal. | Greatest in 24 hours | Total snowfall, unmelted | Days with or more than one inch of rain or snow | Number clear days | Number partly cloudy days | | | Number cloudy days | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 13 | | | | | | | | | | | | | | | | | T. B. Whitby. | |
| Castle Rock | Summit | | 6 | | | | | | | | 1.00 | -0.32 | 0.40 | 12.0 | 6 | 13 | 9 | 8 | W. | David Moore. | |
| Corinne | Boxelder | 4,240 | 31 | 47.4 | -3.4 | 76 | 17 | 22 | *7 | 45 | 0.36 | 0.78 | 0.15 | | 3 | 9 | 7 | 14 | SE. | Agent So. Pacific R. R. | |
| Farmington | Davis | 4,267 | 9 | 44.4 | -4.4 | 68 | 16 | 24 | *5 | 32 | 1.53 | -0.45 | 0.68 | 7.0 | 5 | 17 | 6 | 7 | N. | Charles Boylin. | |
| Frenches | Uinta | 5,000 | 21 | 44.8 | -3.4 | 76 | *16 | 15 | 8 | 47 | 0.65 | -0.07 | 0.45 | 0.0 | 2 | 26 | 6 | 4 | NW. | Post Surgeon. | |
| Harland | Boxelder | 4,450 | 1 | | | | | | | | 0.07 | | 0.06 | T. | | 3 | 7 | 6 | 5 | | Plant Industry Bureau |
| Heber | Wasatch | 5,606 | 10 | 40.2 | -4.2 | 70 | *10 | 15 | *5 | 45 | 2.58 | 1.31 | 0.48 | | 10 | 11 | 6 | 13 | N. | John Crook. | |
| Heifer | Summit | 5,301 | 10 | 40.0 | -4.0 | 68 | 16 | 14 | 7 | 42 | 1.48 | 0.60 | 0.30 | 6.0 | 8 | 14 | 7 | 9 | NW. | William Brewer. | |
| Huntsville | Weber | 5,100 | 14 | | | | | | | | 1.52 | 0.31 | 0.59 | 6.0 | 5 | 11 | 13 | 6 | | Lars Petersen. | |
| Inton | Boxelder | 4,230 | 31 | 41.6 | 8.0 | 67 | 16 | 22 | 11 | 35 | 0.00 | -0.76 | 0.00 | 0.0 | 4 | 22 | 4 | 4 | SW. | Agent So. Pacific R. R. | |
| Jogon | Cache | 4,597 | 18 | | | | | | | | 0.59 | -1.14 | | | 3 | | | | | Agricultural College. | |
| Juab | Boxelder | | 5 | 43.2 | -4.0 | 75 | 20 | 8 | 12 | 54 | T. | -0.25 | T. | | 0 | | | | NW. | C. J. Burke. | |
| Kanab | Summit | | 5 | | | | | | | | 1.77 | +0.07 | 0.32 | 13.0 | 10 | 5 | 10 | 15 | NW. | J. Woolstenhulme. | |
| Kendoville | Rich | 6,200 | 10 | 36.8 | -4.8 | 64 | 17 | 11 | 7 | 32 | 1.40 | -0.64 | 0.60 | 9.0 | 6 | 14 | 5 | 11 | W. | J. S. Moffat. | |
| Killville | Cache | 4,848 | 14 | | | | | | | | 0.58 | -2.90 | 0.25 | | 6 | | | | | Fred Yeates. | |
| Korgon | Morgan | 5,080 | 6 | 40.1 | 5.6 | 67 | 17 | 14 | 7 | 39 | 1.90 | +0.76 | 0.50 | 12.0 | 7 | 7 | 11 | 12 | NW. | W. Visick. | |
| Koden No. 1 | Weber | 4,310 | 8 | 46.6 | 4.4 | 73 | 17 | 25 | 5 | 30 | 1.05 | -0.98 | 0.56 | 0.0 | 3 | 17 | 6 | 6 | NW. | Enoch Farr. | |
| Koden No. 2 | Weber | 4,310 | 39 | 48.7 | 4.0 | 74 | 17 | 30 | *5 | | 1.01 | -0.37 | 0.35 | T. | 8 | 16 | 8 | 6 | W. | W. H. Chevers. | |
| Kark City | Summit | 7,800 | 12 | | | | | | | | | | | | | | | | | Prof. A. D. Griffin. | |
| Kromontory | Boxelder | | 2 | | | | | | | | 0.45 | 0.22 | 0.20 | 4.5 | 3 | | | | | F. C. Houghton. | |
| Kandolph | Rich | | 6 | | | | | | | | 0.51 | -0.70 | 0.15 | | 8 | 18 | 1 | 11 | SW. | Wm. Rex. | |
| Kalfair Beach | Salt Lake | | 6 | 46.8 | -3.3 | 68 | 17 | 30 | 8 | 25 | 0.70 | -0.87 | 0.24 | T. | | 5 | | | | E. J. Bench. | |
| Kalt Lake City | Salt Lake | 4,366 | 35 | 45.8 | 4.3 | 70 | 17 | 26 | 5 | 31 | 1.60 | -0.66 | 0.41 | 3.4 | 11 | 15 | 8 | 7 | NW. | Section Center. | |
| Kilver Lake | Salt Lake | | 3 | | | | | | | | | | | | | | | | | N. J. Ferherall. | |
| Knowville | Boxelder | 4,360 | 10 | 40.2 | 5.8 | 72 | 17 | 11 | 22 | 53 | 0.39 | -0.79 | 0.20 | 0.0 | 2 | 12 | 18 | 0 | N. | Joseph Robbins. | |
| Krawberry Valley | Wasatch | | 5 | 32.1 | | 58 | 16 | 2 | 4 | 45 | 3.35 | | 0.60 | 33.5 | 11 | 14 | 9 | 7 | | U. S. Reclamation Service. | |
| Kreolore | Wasatch | 5,507 | 4 | 42.0 | | 75 | *16 | 10 | 8 | 48 | 0.42 | | 0.32 | 0.2 | 3 | 17 | 13 | 0 | W. | M. M. Smith. | |
| Kroele | Tooele | 4,900 | 13 | 45.3 | -3.6 | 72 | 17 | 23 | 5 | 37 | 2.09 | +0.37 | 0.48 | | 11 | 2 | 6 | 22 | N. | E. A. Bonelli. | |
| Kroel (near) | Uinta | | 44 | 43.6 | 5.1 | 75 | 17 | 12 | 8 | 41 | 0.62 | -0.10 | 0.44 | 1.0 | 4 | 19 | 7 | 4 | SW. | Joab Collier. | |
| Krodruff | Rich | 6,500 | 12 | | | | | | | | | | | | | | | | | James Stuart. | |
| Averages | | | 42.9 | -4.6 | | | | | | | 1.07 | -0.50 | | 6.4 | 5 | 13 | 9 | 8 | NW. | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | |
| Kumbella (near) S. | Sevier | | 4 | 48.2 | | 80 | 27 | 18 | 5 | 52 | 0.81 | -0.42 | 0.22 | 4.0 | 6 | 8 | 21 | 1 | SW. | J. W. Fairbanks. | |
| Kuck Rock | Millard | 4,872 | 9 | | | | | | | | | | | | | | | | | A. H. Cassell. | |
| Kastle Dale | Emery | 5,500 | 10 | 45.3 | -0.5 | 76 | 16 | 14 | 8 | 46 | 0.80 | +0.05 | 0.60 | | 3 | 18 | 12 | 0 | | James Jeffs. | |
| Keseret | Millard | 4,541 | 15 | 45.2 | -2.8 | 76 | 16 | 16 | *7 | 46 | 1.31 | +0.39 | 0.60 | 2.0 | 6 | 11 | 5 | 14 | N. | S. W. Western. | |
| Kragon | Uinta | | 2 | 48.3 | | 76 | 16 | 17 | 30 | 38 | 0.05 | | 0.02 | 0.1 | 4 | 18 | 0 | 12 | | H. J. Cooper. | |
| Krany | Emery | 6,260 | 9 | 44.5 | 0.0 | 75 | *16 | 13 | 8 | 43 | T. | 0.38 | T. | 0.0 | 0 | 2 | 7 | 21 | N. | H. C. Wickman. | |
| Krillmore | Millard | 5,100 | 19 | 47.1 | 2.8 | 81 | 16 | 20 | *5 | 45 | 2.91 | -1.10 | 0.55 | | 8 | | | | | J. J. Starley. | |
| Krarrison | Millard | | 6 | 46.2 | 3.5 | 78 | *1 | 10 | 0 | 43 | 0.40 | -0.12 | 0.40 | | 1 | 14 | 6 | 6 | S. | E. M. Smith. | |
| Krarrison Creek | Tooele | 5,277 | 9 | 43.0 | 3.2 | 72 | 16 | 15 | 5 | 39 | 1.49 | +0.05 | 0.65 | 2.0 | 7 | 13 | 11 | 6 | N. | Walter James. | |
| Krarrison River | Emery | 4,080 | 12 | 52.6 | 1.4 | 86 | *16 | 18 | 8 | 52 | 0.29 | -0.48 | 0.29 | | 1 | 17 | 13 | 0 | N. | J. H. Fritz. | |
| Krappah (near) | Tooele | 7,500 | 4 | 43.3 | -0.6 | 76 | *16 | 11 | *5 | 55 | 0.78 | +0.04 | 0.40 | 5.5 | 3 | 16 | 13 | 1 | W. | E. S. Gamwell. | |
| Kranch | Millard | | 3 | | | | | | | | 2.18 | | 0.55 | | 7 | | | | | Geo. Crane. | |
| Kranchville | Juab | 5,010 | 19 | 43.6 | -3.0 | 74 | 16 | 18 | 5 | 40 | 2.13 | +0.40 | 0.83 | 9.2 | 9 | 13 | 10 | 7 | SW. | William Brown. | |
| Kranchi | Sanpete | 5,575 | 15 | 40.1 | -7.4 | 64 | 27 | 16 | 8 | 33 | 1.80 | +0.74 | 0.47 | | 7 | 14 | 1 | 15 | | J. M. Anderson. | |
| Kranchi | Sanpete | | | | | | | | | | 1.70 | | 0.63 | 0.8 | 11 | 2 | 26 | 2 | SW. | B. F. Eliason. | |
| Kranchi | Utah | 4,650 | 8 | 45.9 | -4.3 | 75 | 16 | 20 | *5 | 45 | 1.21 | +0.39 | 0.37 | | 6 | 17 | 4 | 9 | N. | D. C. Walkey. | |
| Kranchi | Sanpete | 5,859 | 17 | | | | | | | | | | | | | | | | | Miss Jane Martin. | |
| Kranchi | Juab | | 0 | | | | | | | | 3.70 | 0.90 | 0.62 | 0.5 | 9 | 19 | 3 | 8 | SW. | A. Madsen. | |
| Kranchi | Millard | | 5 | | | | | | | | | | | | | | | | | J. Finlinson. | |
| Kranchi | Utah | 4,637 | 6 | | | | | | | | 3.88 | 1.89 | 1.00 | 6.0 | 13 | 15 | 8 | 7 | SW. | D. L. Coombs. | |
| Kranchi | Utah | 4,834 | 17 | 45.2 | -4.7 | 76 | 17 | 20 | 8 | 43 | 2.84 | 1.57 | 0.65 | | 8 | 7 | 21 | 2 | N. | James A. Oliver. | |
| Kranchi | Sevier | 5,350 | 19 | 45.6 | 1.5 | 78 | 16 | 19 | 8 | 48 | 1.00 | +0.43 | 0.50 | | 2 | 26 | 0 | 14 | | J. J. Jensen. | |
| Kranchi | Millard | 5,260 | 14 | 42.8 | -4.1 | 75 | 16 | 12 | 8 | 52 | 2.61 | +1.36 | 0.71 | 2.0 | 11 | 6 | 9 | 15 | SW. | Thomas Memmott. | |
| Kranchi | Carbon | | | 31.9 | | 49 | 19 | 13 | 2 | 30 | 7.49 | | 2.48 | 13.0 | 10 | 13 | 7 | 10 | | O. E. Jorgensen. | |
| Kranchi | Utah | 7,474 | 17 | | | | | | | | | | | | | | | | | Agent Rio Grande R. R. | |
| Kranchi | Carbon | | 5 | | | | | | | | 0.69 | -0.96 | 0.20 | 6.2 | 6 | | | | | Henry Cullum. | |
| Kranchi | Utah | 5,075 | 17 | 44.4 | -3.8 | 70 | 4 | 17 | 30 | 50 | 0.21 | -0.99 | 0.20 | | 2 | 8 | 12 | 10 | | Act. Rio Grande W. R. R. | |
| Kranchi | Juab | | 5 | | | | | | | | | | | | | | | | | Frank Parker. | |
| Kranchi | Utah | | 5 | 44.0 | | 74 | 17 | 19 | 8 | 39 | 2.08 | | 1.00 | 4.5 | 10 | 16 | 7 | 7 | | W. A. Knight. | |
| Kranchi | Carbon | 5,540 | 10 | 38.4 | -8.3 | 70 | 2 | 11 | 8 | 47 | | | | | | | | | | Melville Branch. | |
| Averages | | | 44.3 | 3.7 | | | | | | | 1.73 | +0.46 | | 4.0 | 6 | 12 | 10 | 8 | N. | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Kranchi | San Juan | 4,800 | 9 | | | | | | | | | | | | | | | | | James Connell. | |
| Kranchi | Beaver | | 6 | 42.9 | -4.3 | 73 | 16 | 16 | 7 | 41 | 1.25 | +0.16 | 0.35 | 9.3 | 6 | 15 | 12 | 3 | N. | J. M. Foster. | |
| Kranchi | Iron | | 4 | 47.6 | -0.4 | 73 | 16 | 20 | *7 | 38 | 0.84 | -0.83 | 0.33 | T. | 5 | 13 | 6 | 11 | NE. | Mrs. E. Clayton. | |
| Kranchi | Garfield | | 8 | | | | | | | | | | | | | | | | | John Day. | |
| Kranchi | Washington | | 4 | | | | | | | | | | | | | | | | | Geo. H. Barney. | |
| Kranchi | Washington | 5,700 | 9 | 46.0 | -3.1 | 76 | 16 | 14 | 8 | 44 | 0.05 | -0.77 | 0.54 | | 3 | 14 | 12 | 4 | S. | Joseph T. Atkins. | |
| Kranchi | Washington | | 6 | 36.0 | -1.9 | 86 | *16 | 27 | 5 | 50 | | | 0.03 | | 2 | 10 | 0 | 11 | | E. R. Smyth. | |
| Kranchi | Beaver | 7,318 | 15 | 44.4 | -2.4 | 74 | 16 | 18 | 5 | 41 | 0.31 | -0.38 | 0.20 | | 2 | | | | | Joseph A. Lyman. | |
| Kranchi | San Juan | | 5 | 43.2 | -7.6 | 74 | 26 | 14 | 8 | 49 | T. | -1.57 | T. | 0 | 21 | 2 | 7 | S. | J. P. Hite. | | |
| Kranchi | Garfield | 3,000 | 10 | 50.2 | -3.3 | 85 | *15 | 28 | 6 | 43 | 0.63 | +0.25 | 0.28 | 0.0 | 4 | 18 | 9 | 3 | SW. | W. J. F. McAllister. | |
| Kranchi | Kane | 4,9, | | | | | | | | | | | | | | | | | | | |

TOTAL PRECIPITATION, APRIL, 1909.



SCALE OF SHADES—IN INCHES



Daily Precipitation, April, 1909.

[illegible]

† Distribution not known.

U. S. DEPARTMENT OF AGRICULTURE

551.00

UN

REPORT FOR MAY, 1909

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

JUNE 15, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, MAY, 1909.



U. S. DEPARTMENT OF AGRICULTURE.

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. XI. SALT LAKE CITY, UTAH, MAY, 1909. NO. 5

GENERAL SUMMARY.

May was a cool, dry and windy month on the average, though extremes of droughts and cold were not conspicuous and violent winds were not numerous though velocities averaged high. Three previous Mays averaged colder over the State, 1896, 1905 and 1908, the last year being 50.7°, the lowest of record. The highest previous average for 17 years was 60.2° in 1897. Six previous Mays have averaged drier, 1900 being only 0.36 inch. The wettest May was 1898, with 3.02 inches.

The usual temperature distribution is noted over the State; the highest in the Colorado and Rio Virgin river valleys, and the lowest in the Wasatch and Uinta mountains. The warmest weather occurred over the northern and middle portions of the State on the 4th, but a secondary warm period caused the monthly maximum temperatures in the southern portion generally on the 27th. The cold spell of the first of the month was most widespread, though cold weather again prevailed quite generally about the 6th and again about the 12th.

The precipitation for the month was confined principally to the mountain regions of the northern part of the State, a number of the southern stations reporting none. Scattered thunder-showers occurred during the second week throughout the State, and a good rain fell over the northern portion on the 16th. Rains were general during the last decade everywhere, clearing on the 30th, with largest amounts in the northern section, and decreasing to the southward. A feature of the precipitation distribution is that the rainfall was excessive at a majority of stations in the northern portion of the State, while the deficiency elsewhere was well marked.

More snow is reported stored in the mountains at this time of the year than ever before, indicating an abundance of irrigation water for the coming season, and also high water in the streams.

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 52.6°, which was 3.2° below the normal.

The highest local monthly mean was 66.0° at St. George, and the lowest was 35.4° at Scofield.

The highest temperature recorded was 92° at St. George, on the 5th and 26th, and the lowest, 10° at Loa, on the 12th and 14th, giving a range for the section of 82°.

The greatest local monthly range was 65° at Green River, and the least, 37° at Scofield.

PRECIPITATION.

The average precipitation, determined from the reports of 68 stations, was 1.02 inches, which was 0.38 inch below the normal for the State.

NORMAL PRECIPITATION FOR CENTRAL UTAH.

| Stations. | Counties. | Elevation. | Length of re-
cord, years | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Annual. |
|------------------|-----------|------------|------------------------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|---------|
| Annabella [near] | Sevier | 5,250 | 4 | 1.67 | 0.73 | 1.33 | 1.23 | 1.96 | 0.41 | 1.28 | 1.38 | 1.45 | 1.29 | 0.41 | 0.55 | 13.69 |
| Black Rock | Millard | 4,872 | 9 | 0.75 | 1.16 | 1.28 | 1.18 | 1.21 | 0.28 | 0.41 | 0.88 | 1.16 | 1.00 | 0.71 | 0.48 | 10.50 |
| Castle Dale | Emery | 5,500 | 10 | 0.48 | 0.72 | 0.45 | 0.75 | 0.52 | 0.36 | 0.58 | 0.88 | 0.82 | 0.63 | 0.77 | 0.40 | 7.36 |
| Deseret | Millard | 4,541 | 15 | 0.48 | 0.87 | 0.99 | 0.92 | 1.40 | 0.43 | 0.15 | 0.49 | 0.78 | 0.54 | 0.44 | 0.53 | 7.91 |
| Emery | Emery | 6,260 | 9 | 0.43 | 0.88 | 0.37 | 0.38 | 0.57 | 0.34 | 0.41 | 1.12 | 0.78 | 0.65 | 0.44 | 0.34 | 6.68 |
| Fillmore | Millard | 5,100 | 10 | 1.19 | 1.48 | 1.98 | 1.81 | 1.72 | 0.54 | 0.63 | 0.83 | 0.95 | 0.97 | 0.41 | 1.10 | 14.11 |
| Garrison | Millard | 5,100 | 6 | 0.33 | 0.80 | 0.78 | 0.52 | 0.94 | 0.22 | 0.38 | 0.57 | 0.64 | 0.55 | 0.64 | 0.23 | 6.60 |
| Government Creek | Tooele | 5,277 | 9 | 1.09 | 1.40 | 2.45 | 1.44 | 1.05 | 0.67 | 0.44 | 1.15 | 0.96 | 0.73 | 1.19 | 0.83 | 14.00 |
| Green River | Emery | 4,080 | 12 | 0.19 | 0.64 | 0.36 | 0.77 | 0.63 | 0.05 | 0.21 | 0.75 | 0.75 | 0.30 | 0.56 | 0.31 | 5.40 |
| Idapah [near] | Tooele | 7,500 | 4 | 0.85 | 1.65 | 1.69 | 0.74 | 2.32 | 0.06 | 0.56 | 1.36 | 0.42 | 1.04 | 0.89 | 0.50 | 12.98 |
| Levan | Juab | 5,010 | 15 | 1.15 | 1.48 | 1.68 | 1.06 | 1.31 | 0.60 | 0.60 | 0.93 | 1.26 | 1.10 | 0.92 | 1.66 | 16.02 |
| Manti | Sanpete | 5,575 | 19 | 1.43 | 1.61 | 2.21 | 1.73 | 1.88 | 0.60 | 0.60 | 0.93 | 1.26 | 1.10 | 0.92 | 1.66 | 16.02 |
| Mt. Nebo | Utah | 4,650 | 8 | 0.86 | 1.12 | 1.67 | 0.82 | 1.53 | 0.39 | 0.57 | 0.62 | 1.14 | 0.84 | 0.91 | 0.80 | 11.95 |
| Mt. Pleasant | Sanpete | 5,859 | 17 | 1.17 | 1.84 | 1.56 | 0.93 | 1.53 | 0.47 | 0.45 | 0.45 | 0.72 | 0.63 | 0.54 | 0.74 | 10.00 |
| Nephi | Juab | 6,059 | 6 | 1.26 | 1.60 | 2.01 | 1.80 | 2.91 | 0.77 | 0.87 | 1.23 | 1.40 | 0.68 | 0.77 | 1.31 | 12.62 |
| Nephi, near | Juab | 6,059 | 17 | 1.24 | 1.40 | 2.28 | 1.66 | 2.92 | 0.94 | 0.77 | 2.39 | 1.74 | 0.99 | 0.92 | 1.32 | 18.07 |
| Oak City | Millard | 4,900 | 3 | 1.18 | 1.14 | 1.98 | 1.46 | 2.30 | 0.64 | 0.64 | 0.95 | 1.62 | 0.92 | 1.08 | 1.14 | 15.15 |
| Payson | Utah | 4,637 | 5 | 1.81 | 1.49 | 3.25 | 1.99 | 2.90 | 0.90 | 0.49 | 0.77 | 1.75 | 1.53 | 1.17 | 1.66 | 20.14 |
| Provo | Utah | 4,532 | 17 | 1.32 | 1.49 | 1.73 | 1.27 | 1.95 | 0.68 | 0.23 | 0.55 | 0.58 | 0.96 | 1.07 | 1.52 | 13.86 |
| Richfield | Sevier | 5,350 | 19 | 0.66 | 0.73 | 1.09 | 0.57 | 0.52 | 0.36 | 0.55 | 0.67 | 0.52 | 0.78 | 0.30 | 0.65 | 7.40 |
| Scipio | Millard | 5,260 | 14 | 1.24 | 1.72 | 2.23 | 1.25 | 1.67 | 0.42 | 0.64 | 1.03 | 1.00 | 1.32 | 1.15 | 0.93 | 14.72 |
| Soldier Summit | Utah | 7,474 | 17 | 1.43 | 1.72 | 1.74 | 0.68 | 0.88 | 0.19 | 0.55 | 0.71 | 0.69 | 0.60 | 1.06 | 1.58 | 11.83 |
| Sunnyside | Carbon | 5,286 | 5 | 0.86 | 0.88 | 1.59 | 1.65 | 1.88 | 0.80 | 1.01 | 1.51 | 2.14 | 0.57 | 1.70 | 0.67 | 15.20 |
| Thistle | Utah | 5,075 | 17 | 1.64 | 1.51 | 1.80 | 1.20 | 1.29 | 0.55 | 0.59 | 1.02 | 1.27 | 0.53 | 1.02 | 1.43 | 13.85 |
| Trout Creek | Juab | 5,075 | 5 | 0.83 | 0.95 | 0.97 | 0.48 | 1.16 | 0.79 | 0.99 | 1.10 | 1.09 | 0.57 | 1.15 | 0.44 | 9.56 |
| Wellington | Carbon | 5,540 | 10 | 0.93 | 0.48 | 0.53 | 0.69 | 0.52 | 0.33 | 0.27 | 0.94 | 1.05 | 0.36 | 0.56 | 0.29 | 6.65 |
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The greatest monthly amount was 3.34 inches at Scofield, and the least monthly amount was a 0.00 inch at Enterprise, Frisco, Loa and Millford.

The greatest amount of precipitation in any 24 consecutive hours was 1.36 inches at Ogden, on the 16th.

There was an average of 4 days with 0.01 inch or more of precipitation; 6 over the northern, 4 over the middle, and 1 over the southern section.

WIND.

The prevailing direction for the section was northwest.

The total number of miles recorded at Salt Lake City was 4906; at Modena, 9088; at Grand Junction, Colo., 4754; and at Pocatello, Idaho, 7125.

The maximum velocity at Salt Lake City was 36 miles per hour from the west on the 28th; at Modena, 56 miles from the southwest on the 27th; at Grand Junction, Colo., 36 miles from the south on the 28th; and at Pocatello, Idaho, 53 miles from the southwest on the 5th.

CLOUDINESS.

The average number of clear days for the section during the month was 16; partly cloudy days, 9; cloudy days, 6.

According to the records of automatic sunshine recorders, Salt Lake City had 66 per cent; Modena 83 per cent; Grand Junction, Colo., 62 per cent; and Pocatello, Idaho, 64 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 45 per cent, the lowest observed reading being 12 per cent on the 4th; at Modena, 35 per cent, the lowest observed reading being 11 per cent on the 10th, 19th and 27th; at Grand Junction, Colo., 36 per cent, the lowest observed reading being 9 per cent on the 4th; and at Pocatello, Idaho, 54 per cent, the lowest observed reading being 22 per cent on the 13th.

MISCELLANEOUS PHENOMENA.

Stations and Dates of Occurrence

Fog, dense.—Manti, 24.

Sleet.—Castle Rock, 29; Garland, 15; Huntsville, 16; Marysville, 23, 29; Meadowville, 16; Morgan, 16; Moroni, 23; Panguitch, 28, 29; Scofield, 30; Sunnyside, 13, 23.

Hail.—Deseret, 28; Farmington, 16, 28; Garland, 22; Government Creek, 16, 28, 29; Henefer, 10, 29; Huntsville, 29; Levan, 29; Lucin, 27; Marion, 8, 16, 28; Marysville, 20, 23; Meadowville, 21; Morgan, 16, 28, 29; Moroni, 16, 28; Nephi, 23; Ogden, 28, 29; Salt Lake City, 10, 29; Strawberry Valley, 28; Theodore, 23; Tropic, 13, 22; Utah Lake Pumping Station, 21, 28, 29.

Thunderstorms.—Castle Rock, 19, 27, 28; Farmington, 10,

16, 21, 22, 27, 28; Garland, 22, 27; Government Creek, 23; Heber, 28, 29; Henefer, 10, 19, 22, 25, 28; Hite, 29; Huntsville, 22, 29; Levan, 28; Lucin, 25; Lund, 26; Marion, 16, 19, 26, 28; Marysville, 20; Meadowville, 21; Moab, 21; Modena, 27; Morgan, 27, 28; Moroni, 28; Mt. Nebo, 23; Ogden, 22, 28, 29; Provo, 28; Randolph, 17, 24-27; Ranch, 25; Salt Lake City, 10, 16, 28; Saltair Beach, 16; Scofield, 21, 31; Strawberry Valley, 22, 23; Theodore, 22; Tropic, 25; Utah Lake Pumping Station, 9, 16, 21, 26, 28.

High Winds.—Deseret, 5, 9, 10, 11, 13, 15, 21, 22, 27, 30; Enterprise, 15, 16, 22, 23, 27-29; Ft. Duchesne, 5, 16, 27, 28; Garrison, 5, 7-9, 12, 15, 21, 22, 27, 28, 31; Garland, 5, 27, 28, 31; Government Creek, 5, 15, 21, 22, 27; Grayson, 10-12, 27-29; Heber, 5, 28; Henefer, 5; Hite, 10, 11, 27, 28, 30, 31; La Sal, 5, 10, 11, 29; Levan, 27; Marion, 9; Marysville, 5, 10, 27-31; Meadowville, 5, 6; Modena, 4-7, 9-12, 15, 17, 18, 20-23, 27, 28, 30, 31; Morgan, 10, 11, 15, 16, 19, 28; Moroni, 11, 21, 27; Mt. Nebo, 15; Nephi, 5, 6, 8, 15, 22; Ogden, 5; Panguitch, 7, 28; Pinto, 27; Randolph, 19; Ranch, 6, 15, 27; Richfield, 9, 12, 14, 21, 27; St. George, 7, 23, 27, 28; Salt Lake City, 5, 11, 16, 27, 28; Scipio, 27; Sunnyside, 10; Theodore, 1, 5, 16, 29, 30; Tooele, 15, 16, 20; Tropic, 5, 6, 10, 21, 27, 28, 30, 31; Utah Lake Pumping Station, 5, 12, 15, 21, 26, 28; Vernal, 5, 15, 28.

WATER STAGES.

The level of Great Salt Lake on May 1st was 4.8 feet above zero; on May 15th, 4.9 feet above, and on June 1st, 5.5 feet above.

ERRATA.

April, 1909, report. Page 29:—Morgan, mean temperature should be 40.6°.

Page 29:—Randolph, total precipitation should be 0.55 inch.

Page 32:—Randolph, total precipitation should be 0.55 inch.

COMPARATIVE STATE DATA FOR MAY.

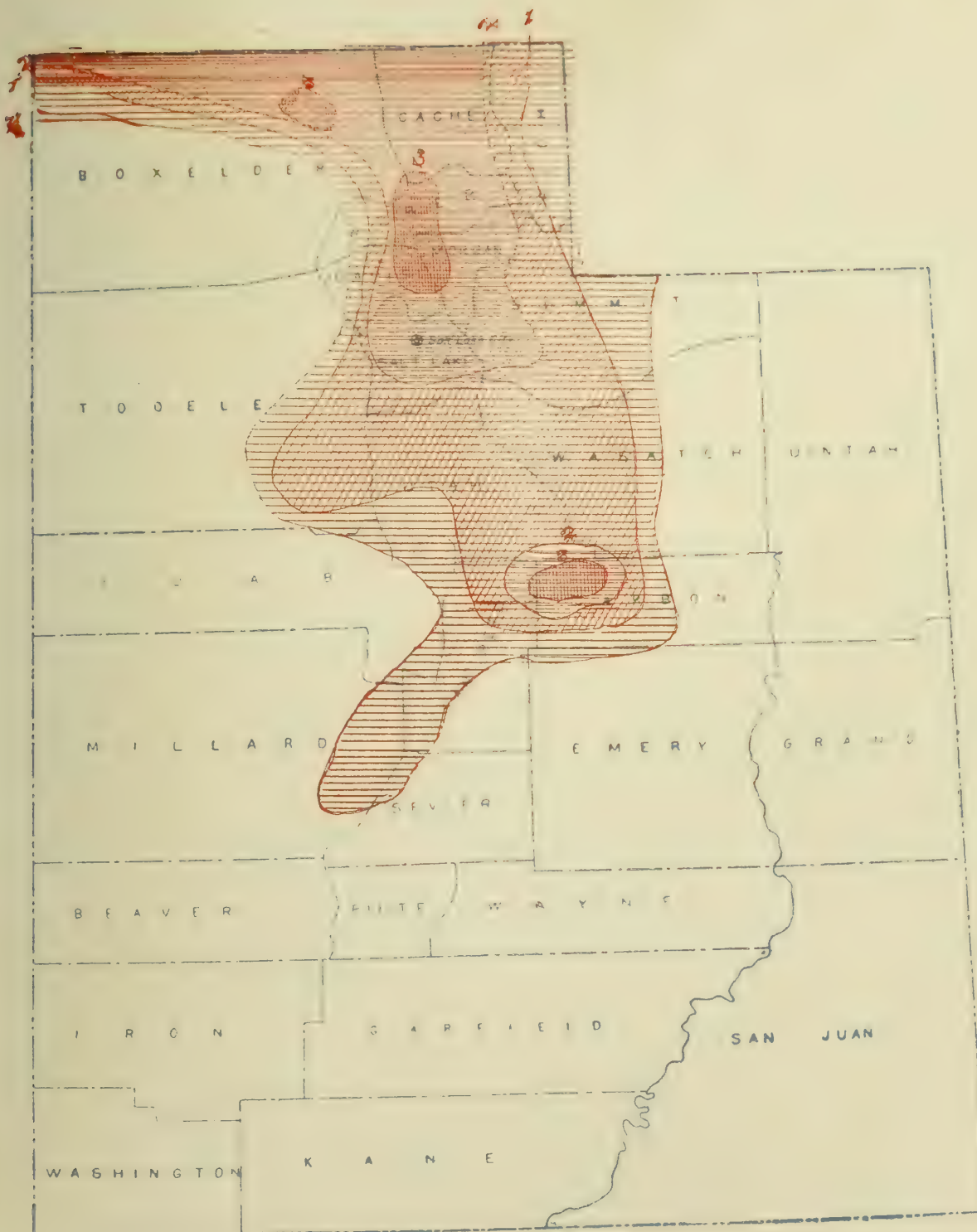
| Year. | Temperature. | | | Average Precipitation. |
|-------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1892 | 54.8 | 98 | 20 | 1.55 |
| 1893 | 54.8 | 96 | 12 | 0.77 |
| 1894 | 58.2 | 98 | 10 | 0.44 |
| 1895 | 57.0 | 99 | 19 | 1.16 |
| 1896 | 51.0 | 104 | 12 | 1.52 |
| 1897 | 60.2 | 104 | 12 | 0.42 |
| 1898 | 53.2 | 94 | 20 | 3.02 |
| 1899 | 52.8 | 96 | 15 | 0.79 |
| 1900 | 59.5 | 101 | 21 | 0.36 |
| 1901 | 59.3 | 98 | 15 | 1.29 |
| 1902 | 56.2 | 99 | 13 | 0.04 |
| 1903 | 53.3 | 100 | 15 | 1.00 |
| 1904 | 56.2 | 100 | 15 | 1.71 |
| 1905 | 52.3 | 96 | 18 | 1.77 |
| 1906 | 55.4 | 96 | 13 | 1.98 |
| 1907 | 52.7 | 97 | 16 | 2.04 |
| 1908 | 50.7 | 90 | 11 | 2.35 |
| 1909 | 52.6 | 92 | 10 | 1.92 |

CLIMATOLOGICAL DATA, MAY, 1909.

| | | Temperature, in degrees Fahrenheit | | | | | | | | | | Precipitation, in inches | | | | | Sky | | | | Observers |
|----------------------|------------|------------------------------------|-------------------------|-------|----------------------------|---------|--------|-------|-------|----------------------------|----------------------|--------------------------|------------------------------|----------------------|------------------------------|----------------------|-----------------|---------------|----------------------------|--------------------------|-----------|
| Stations | Counties | Elevation, feet | Length of record, years | Month | Deviations from the normal | Highest | Lowest | Range | Total | Deviations from the normal | Greatest in 24 hours | Total snowfall in season | Days with snow on the ground | Number of rainy days | Number of partly cloudy days | Number of clear days | Prevailing wind | | | | |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,000 | 14 | | | | | | | | | | | | | | | T. B. Whitby. | | | |
| Castle Rock | Summit | 6,044 | 6 | | | | | | 1.80 | -1.86 | 0.25 | 1.0 | 7 | 14 | 7 | 10 | W | David Moore. | | | |
| Fortune | Boxelder | 4,240 | 33 | 55.2 | 8.1 | 84 | 4 | 24 | 6 | 2.81 | 1.44 | 1.08 | 0.0 | 5 | 10 | 14 | 7 | Mc. | Agent So. Pacific R. R. | | |
| Hamington | Davis | 4,267 | 9 | 51.0 | 2.6 | 88 | 24 | 22 | 1 | 3.11 | 0.18 | 0.98 | 0.0 | 6 | 20 | 3 | 6 | NW. | Charles Boylin. | | |
| St. Duchesne | Uinta | 5,000 | 21 | 51.0 | 2.8 | 80 | 4 | 24 | 1 | 0.10 | 0.72 | 0.08 | 0.0 | 2 | 26 | 0 | 5 | NW. | Post surgeon. | | |
| Farland | Boxelder | 4,180 | 1 | 52.2 | | 82 | 4 | 18 | 6 | 54 | 2.80 | 0.94 | 0.4 | 9 | 18 | 6 | 7 | S. | Plant Industry Bureau. | | |
| Jobber | Wasatch | 5,000 | 10 | 48.5 | -3.4 | 78 | 4 | 20 | 31 | 48 | 1.00 | -0.74 | 0.44 | 7 | 14 | 8 | 9 | S. | John Crook. | | |
| Jonetier | Summit | 5,301 | 10 | 47.8 | -3.3 | 76 | 4 | 18 | *1 | 49 | 1.50 | -0.66 | 0.58 | 9 | 14 | 7 | 10 | NW. | William Brewer. | | |
| Juntsville | Weber | 5,100 | 14 | | -3.3 | 76 | 4 | 18 | | 2.22 | -0.08 | 1.10 | 2.0 | 7 | 19 | 7 | 5 | E. | Lars Peterson. | | |
| Kelton | Boxelder | 4,230 | 31 | 50.4 | -8.3 | 80 | 14 | 24 | 12 | 54 | 2.60 | 1.81 | 1.30 | 8 | 6 | 16 | 9 | E. | Agent So. Pacific R. R. | | |
| Levan | CACHE | 4,507 | 18 | | | | | | 5 | 50 | 2.51 | +0.07 | | 7 | 6 | 11 | 4 | NW. | Agricultural College. | | |
| Levan | Boxelder | 4,504 | 5 | 52.0 | | 80 | 31 | 22 | | 0.10 | 0.05 | 0.0 | 0.0 | 5 | 6 | 8 | 17 | NW. | C. J. Burke. | | |
| Marion | Summit | 6,750 | 5 | | | | | | 1 | 23 | 0.28 | 2.0 | | 4 | 22 | 0 | 9 | W. | J. Woolstenhulme | | |
| Meadowville | Rich | 6,200 | 10 | 40.2 | 2.4 | 73 | 24 | 24 | *6 | 41 | 1.05 | -0.51 | 0.40 | T. | | | | | J. S. Moffat. | | |
| Millville | CACHE | 4,848 | 14 | | | | | | 4 | 75 | 0.40 | 0.86 | | 9 | | | | | Fred Yeates. | | |
| Morgan | Morgan | 5,080 | 0 | 49.4 | 1.2 | 78 | 4 | 20 | 1 | 44 | 2.02 | -1.10 | 0.75 | 15 | 15 | 1 | 1 | NW. | W. Visick. | | |
| Ngden No. 1 | Weber | 4,310 | 39 | 54.5 | -2.0 | 81 | 4 | 32 | 1 | 34 | 4.10 | 0.41 | 1.30 | 6 | 20 | 8 | 3 | NW. | Enoch Farr. | | |
| Ngden No. 2 | Weber | 4,310 | 39 | 57.4 | -3.8 | 80 | 4 | 28 | 1 | 38 | 4.18 | 1.37 | 1.12 | 0.0 | 8 | 17 | 8 | 6 | NW. | W. H. Chevers. | |
| Ork City | Summit | 7,800 | 12 | 53.0 | +5.3 | 70 | 4 | 33 | 5 | 29 | 2.14 | +0.38 | 0.74 | 8 | 11 | 18 | 2 | | Prof. A. D. Griffin. | | |
| Promontory | Boxelder | 4,913 | 2 | | | | | | | 3.25 | +2.44 | 1.00 | | 4 | | | | | F. C. Houghton. | | |
| Randolph | Rich | 6,442 | 0 | | | | | | | 0.91 | -0.71 | 0.50 | | 6 | 21 | 1 | 9 | SW. | Wm. Rex. | | |
| Saltair Beach | Salt Lake | 4,220 | 6 | 53.8 | 1.9 | 76 | 27 | 30 | 1 | 31 | 2.47 | -0.18 | 0.73 | 0.0 | 7 | | | | E. J. Bench. | | |
| Salt Lake City | Salt Lake | 4,366 | 35 | 53.4 | 4.9 | 80 | 4 | 31 | 1 | 31 | 2.44 | -0.59 | 0.79 | 0.0 | 8 | 16 | 11 | 4 | NW. | Section Center. | |
| Salt Lake | Boxelder | 4,300 | 19 | | | | | | 2 | 05 | +0.55 | 0.90 | | 3 | 22 | 7 | 2 | | N. J. Ferber. | | |
| Strawberry Valley | Wasatch | | 5 | 41.6 | | 64 | 31 | 14 | 1 | 40 | 1.06 | 0.25 | 2.6 | 9 | 14 | 12 | 5 | | Joseph Robbins. | | |
| Theodore | Wasatch | 5,597 | 4 | 52.0 | | 80 | 4 | 20 | 1 | 50 | 0.20 | 0.15 | T. | 4 | 15 | 15 | 1 | W. | U. S. Reclamation Service. | | |
| Tooele | Tooele | 4,900 | 13 | 52.2 | -3.3 | 80 | 4 | 28 | 1 | 38 | 1.73 | -0.00 | 0.82 | 0.0 | 6 | 5 | 8 | 18 | NW. | M. M. Smith. | |
| Uernal (near) | Uinta | 5,050 | 14 | 53.4 | -3.4 | 79 | 18 | 27 | *6 | 42 | 0.08 | -1.04 | 0.05 | 0.0 | 3 | 24 | 3 | 3 | SW. | E. A. Bonelli. | |
| Woodruff | Rich | 6,500 | 12 | | -3.2 | | | | | 1.84 | -0.13 | | | 6 | 16 | 8 | 7 | NW. | Joab Collier. | | |
| Averages | | | | 51.6 | | | | | | | | | | 6 | 16 | 8 | 7 | NW. | James Stuart. | | |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | |
| Annabella (near) S. | Sevier | 5,250 | 4 | 59.5 | | 85 | 31 | 22 | 1 | 53 | 0.15 | -1.81 | 0.12 | 0.0 | 3 | 5 | 26 | 0 | SW. | J. W. Fairbanks. | |
| Black Rock | Millard | 4,872 | 9 | | | | | | | | | | | | | | | | | A. H. Cassell. | |
| Castle Dale | Emery | 5,500 | 10 | 53.8 | +0.8 | 81 | 4 | 21 | 1 | 51 | 0.05 | -0.47 | 0.05 | 0.0 | 1 | 23 | 8 | 0 | W. | James Jeffs. | |
| Deseret | Millard | 4,541 | 15 | 53.2 | -2.6 | 80 | 4 | 23 | 1 | 47 | 0.50 | -0.70 | 0.26 | 0.0 | 3 | 12 | 9 | 9 | N. | S. W. Western. | |
| Dragoon | Uinta | 6,000 | 2 | | | | | | | | | | | | | | | | | H. J. Cooper. | |
| Emery | Emery | 6,260 | 9 | 52.8 | 1.8 | 76 | *8 | 17 | 1 | 52 | T. | -0.57 | T. | 0.0 | 0 | 3 | 5 | 23 | SW. | H. C. Wickman. | |
| Fillmore | Millard | 5,100 | 19 | 55.8 | -1.4 | 85 | 4 | 27 | 12 | 44 | 0.35 | -1.37 | 0.28 | 0.0 | 4 | | | | | J. J. Starley. | |
| Fillmore | Millard | 6 | 53.7 | -0.4 | 82 | 4 | 26 | 12 | 44 | 0.40 | -0.54 | 0.30 | 0.0 | 2 | 16 | 3 | 9 | S. | E. M. Smith. | | |
| Government Creek | Tooele | 5,277 | 9 | 55.6 | +2.8 | 78 | 4 | 23 | 12 | 40 | 1.41 | -0.24 | 0.50 | 0.0 | 4 | 13 | 14 | 4 | N. | Walter James. | |
| Green River | Emery | 4,080 | 12 | 60.2 | -3.6 | 90 | 4 | 25 | 1 | 54 | | | | | 21 | 6 | 0 | NW. | J. H. Fritz. | | |
| Hatch (near) | Tooele | 7,500 | 4 | | | 83 | | 26 | | 6.42 | -1.90 | | | | | | | | | E. S. Gamwell. | |
| Hatch | Millard | 5,000 | 3 | | | | | | | 1.72 | | 1.30 | | 3 | | | | | | Geo. Crane. | |
| Levan | Juab | 5,010 | 19 | 51.4 | 3.0 | 77 | 4 | 24 | 1 | 46 | 0.42 | -1.46 | 0.17 | 0.0 | 3 | 17 | 8 | 6 | SW. | William Brown. | |
| Monte | Sanpete | 5,575 | 15 | 48.2 | -8.5 | 70 | *4 | 24 | 1 | 35 | 0.23 | -1.08 | 0.23 | 0.0 | 1 | 14 | 5 | 12 | N. | J. M. Anderson. | |
| Monte | Sanpete | 5,750 | | | | | | | | 0.84 | | 0.31 | T. | 4 | 2 | 26 | 3 | SW. | B. F. Eliason. | | |
| Ut. Nebo | Utah | 4,650 | 8 | 53.8 | -2.3 | 82 | 4 | 24 | 12 | 44 | 0.69 | -0.84 | 0.46 | 0.0 | 4 | 21 | 7 | 3 | N. | D. C. Walkey. | |
| Ut. Pleasant | Sanpete | 5,859 | 17 | | | | | | | | | | | | | | | | | Miss Jane Martin. | |
| Upham | Juab | 6,059 | 6 | | | | | | | 0.65 | -0.66 | 0.29 | T. | 7 | 16 | 12 | 3 | SW. | A. Madsen. | | |
| Upham | Millard | 4,900 | 5 | | | | | | | | | | | | | | | | | J. Finlinson. | |
| Upham | Utah | 4,637 | 6 | | | | | | | 2.16 | -0.83 | 0.95 | | 7 | 8 | 15 | 8 | SW. | D. L. Coombs. | | |
| Upham | Utah | 4,532 | 17 | 53.4 | 3.9 | 80 | 4 | 25 | 1 | 42 | 1.12 | -0.83 | 0.52 | 0.0 | 5 | 11 | 17 | 3 | N. | James A. Oliver. | |
| Upham | Sevier | 5,350 | 19 | 53.8 | -2.4 | 84 | 4 | 22 | 1 | 51 | 0.50 | -0.02 | 0.50 | 0.0 | 1 | 23 | 0 | 8 | SW. | J. J. Jensen. | |
| Upham | Millard | 5,260 | 14 | 49.5 | -3.8 | 79 | 4 | 18 | *1 | 56 | 0.66 | -1.01 | 0.41 | 0.0 | 6 | 11 | 8 | 12 | N. | Thomas Memmott. | |
| Upham | Carbon | 7,635 | | 35.3 | | 56 | *9 | 19 | 29 | 34 | 3.34 | 1.00 | 0.2 | 7 | 18 | 6 | 7 | | O. E. Jorgensen. | | |
| Upham | Utah | 7,474 | 17 | | | | | | | | | | | | | | | | | Agent Rio Grande R. R. | |
| Upham | Carbon | 5,280 | 5 | | | | | | | 0.61 | 1.27 | 0.25 | 0.0 | 6 | | | | | | Henry Cullum. | |
| Upham | Utah | 5,075 | 17 | 44.2 | -10.5 | 70 | *4 | 20 | 13 | 48 | T. | -1.29 | T. | | 0 | 20 | 0 | 2 | | Agt. Rio Grande W. R. R. | |
| Upham | Juab | | 5 | | | | | | | | | | | | 0 | | | | | Frank Parker. | |
| Upham | Utah | 4,505 | 5 | 51.4 | | 73 | *3 | 27 | 6 | 40 | 1.62 | | 0.68 | 0.0 | 8 | 17 | 0 | 4 | | W. A. Knight. | |
| Upham | Carbon | 5,540 | 10 | 49.0 | -5.7 | 75 | *4 | 16 | 1 | 47 | | | | | | | | | | Melville Branch. | |
| Averages | | | | 51.9 | -4.1 | | | | | 0.80 | -0.91 | | | 4 | 15 | 9 | 7 | SW. | | | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Aneth | San Juan | 4,800 | 9 | | | | | | | | | | | | | | | | | James Connell. | |
| Beaver | Beaver | 6 | 51.2 | +0.8 | 77 | 4 | 23 | 1 | 44 | 0.12 | -2.31 | 0.10 | 0.0 | 2 | 14 | 14 | 3 | SW. | J. M. Foster. | | |
| Bedar City | Iron | 4 | | | | | | | | | | | | | | | | | | Mrs. E. Clayton. | |
| Boyle | Garfield | 8 | | | | | | | | | | | | | | | | | | John Day. | |
| Enterprise (near) S. | Washington | 5,700 | 9 | 53.0 | -2.3 | 77 | 4 | 27 | *1 | 42 | 0.00 | -1.11 | 0.00 | 0.0 | 0 | 19 | 8 | 4 | S. | Geo. H. Barney. | |
| Enterprise | Garfield | 5,700 | 9 | 53.0 | +0.8 | 90 | *26 | 33 | 11 | 49 | 0.00 | -0.62 | 0.03 | 0.0 | 1 | 22 | 0 | 9 | | Joseph T. Atkins. | |
| Experiment Farm | Washington | 5,700 | 9 | 53.0 | -2.3 | 77 | 4 | 27 | *1 | 42 | 0.00 | -1.11 | 0.00 | 0.0 | 0 | 19 | 8 | 4 | S. | Geo. H. Barney. | |
| Frisco | Beaver | 7,318 | 15 | 52.9 | -2.3 | 80 | 4 | 28 | 1 | 36 | 0.00 | | 0.00 | 0.0 | 0 | | | | | E. R. Smyth. | |
| Frison | San Juan | 5 | 50.8 | -2.8 | 80 | 27 | 26 | 1 | 40 | 0.55 | 2.00 | 0.55 | 0.0 | 1 | 24 | 3 | 4 | S. | Joseph A. Lyman. | | |
| Frison | Garfield | 3,000 | 10 | 64.9 | -2.8 | 91 | 27 | 38 | 1 | 48 | 0.06 | -0.68 | 0.06 | 0.0 | 1 | 24 | 7 | 0 | S. | J. P. Hite. | |
| Kanab | Kane | 4,925 | 9 | | | | | | | | | | | | | | | | | W. J. F. McAllister. | |
| Kanab | San Juan | 7,000 | 9 | 50.0 | -0.8 | 73 | 27 | 20 | 1 | 41 | T. | -1.45 | T. | 0.0 | 0 | 17 | 9 | 3 | | Mrs. G. W. Carpenter. | |
| Kanab | Wayne | 7,000 | 17 | 46.2 | -2.7 | | | | | | | | | | | | | | | | |

STATIONS.

TOTAL PRECIPITATION, MAY, 1909



SCALE OF SHADES—IN INCHES



Day of month.

‡ Distribution not known

U. S. DEPARTMENT OF AGRICULTURE

554.08
DND

REPORT FOR JUNE, 1909

UTAH SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

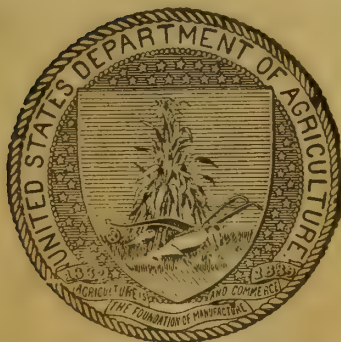
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

R. J. HYATT

SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE

JULY 18, 1909.

MEAN TEMPERATURES AND PREVAILING WINDS, JUNE, 1909.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

UTAH SECTION.

R. J. HYATT, Section Director.

VOL. XI.

SALT LAKE CITY, UTAH, JUNE, 1909.

No. 6

NEW FORM OF PUBLICATION.

With this issue the publication of the Monthly Climatological Report of this section ends. The data from this section will in the future be printed in the Weather Review, issued monthly at the Central Office at Washington, D. C., in similar form, except that the number of stations showing the daily temperature records will be somewhat limited.

This plan has been adopted as a means of placing before those interested in such matters the complete climatic data for certain well-defined areas, which, according to the present manner of publication can only be found in the reports from several different sections.

The country has been divided into twelve great divisions, outlined chiefly according to drainage areas, and the entire data for each division will be brought together and published in convenient form for use of those interested in climatic data.

The twelve separates containing data for the entire country will finally be brought together to form a single publication monthly.

All persons now receiving the monthly summaries will be

furnished, if desired, with separates of the division in which they are located. The complete Review, being a comprehensive presentation of the principal features of the weather of each month, will be furnished to cooperating meteorological bureaus, societies, libraries, etc., upon direct application to the Chief U. S. Weather Bureau, Washington, D. C.

GENERAL SUMMARY.

The weather during the month was unusually warm and dry throughout all sections of the State. Only three of the eighteen years have been warmer, June, 1896, was the warmest on record, having an average of 70.0°, though June, 1900, was but 0.3° cooler. The highest temperature ever observed in the State during June was 116° in 1892. This June was the driest on record for the State with but one exception, that of 1893, when the average precipitation for the State was only 0.02 inch. Other dry Junes were 1900 with 0.16 inch; 1902 with 0.17 inch, and 1905 with 0.18 inch. The precipitation during June, 1907, averaged 1.22 inches, and in 1908 averaged 1.09 inches.

The temperature was quite equally distributed over the State, though the lowest temperatures were confined to the mountain districts across the State as usual. Records for high temperatures were broken at a few stations by the warm wave on the 3d and 4th, but cooler weather again prevailed until about the last of the month, when a great many more records were broken for high temperatures on the 30th.

The precipitation for the month was light everywhere, only four isolated and widely separated stations recording more than half an inch, while twenty-six out of sixty-six stations reported none or only a trace. These were located chiefly in the southern portion of the State. The rain of the 7th and 8th was practically the only important one, though thundershowers scattered light precipitation subsequently in various sections.

High winds were not frequent, and storms were not severe. Snowfall in the mountains melted rapidly, and caused considerable high water and some damage thereby.

NORMAL PRECIPITATION FOR CENTRAL UTAH.

| Stations. | Counties. | Elevation. | Length of record, years. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Annual. |
|------------------------|-----------------|------------|--------------------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|---------|
| Aneth..... | San Juan..... | 4,800 | 9 | 0.58 | 0.53 | 0.75 | 0.47 | 0.29 | 0.32 | 0.53 | 0.82 | 0.91 | 0.27 | 0.76 | 0.38 | 6.61 |
| Beaver..... | Beaver..... | 6,000 | 6 | 0.82 | 1.56 | 1.59 | 1.00 | 2.42 | 0.95 | 1.27 | 1.41 | 1.23 | 0.97 | 0.52 | 0.66 | 13.59 |
| Cedar City..... | Iron..... | 5,750 | 4 | 0.74 | 1.08 | 1.59 | 1.67 | 1.21 | 0.20 | 0.99 | 1.23 | 1.11 | 1.41 | 1.12 | 1.77 | 13.12 |
| Coyote..... | Garfield..... | | 8 | 0.58 | 0.30 | 0.84 | 0.84 | 0.72 | 0.45 | 0.78 | 1.00 | 0.88 | 0.73 | 0.80 | 0.28 | 8.20 |
| Escalante..... | Garfield..... | 5,700 | 9 | 1.57 | 1.14 | 1.28 | 0.62 | 0.65 | 0.29 | 0.90 | 1.59 | 0.98 | 0.77 | 0.60 | 0.82 | 11.21 |
| Frisco..... | Beaver..... | 7,318 | 15 | 0.47 | 0.71 | 0.78 | 0.69 | 1.00 | 0.24 | 0.76 | 1.18 | 0.60 | 0.72 | 0.48 | 0.40 | 8.12 |
| Grayson..... | San Juan..... | 5,750 | 5 | 2.28 | 1.16 | 1.93 | 1.57 | 2.55 | 0.23 | 1.12 | 1.62 | 2.15 | 1.15 | 2.60 | 2.55 | 20.91 |
| Hite..... | Garfield..... | 3,000 | 10 | 0.46 | 0.72 | 0.65 | 0.38 | 0.74 | 0.15 | 0.45 | 0.70 | 0.72 | 0.36 | 0.96 | 0.42 | 6.71 |
| Kanab..... | Kane..... | 4,925 | 9 | 1.58 | 1.26 | 2.64 | 1.20 | 1.04 | 0.27 | 1.00 | 1.17 | 0.71 | 0.54 | 1.80 | 0.51 | 13.72 |
| La Sal..... | San Juan..... | 7,000 | 9 | 0.97 | 0.78 | 1.01 | 0.85 | 1.45 | 0.35 | 0.74 | 1.36 | 1.37 | 0.66 | 0.92 | 0.93 | 11.96 |
| Lee..... | Wayne..... | 7,000 | 17 | 0.47 | 0.54 | 0.68 | 0.64 | 0.34 | 0.17 | 0.02 | 1.17 | 0.55 | 0.44 | 0.37 | 0.31 | 6.60 |
| Marysville [near]..... | Pinto..... | 6,180 | 10 | 0.52 | 1.02 | 1.33 | 0.78 | 1.20 | 0.33 | 0.99 | 1.73 | 1.31 | 0.95 | 0.68 | 0.68 | 11.58 |
| Minersville..... | Beaver..... | 5,070 | 12 | 0.51 | 0.97 | 1.68 | 1.10 | 1.60 | 0.34 | 0.57 | 0.92 | 0.55 | 0.79 | 0.79 | 0.85 | 11.07 |
| Moab..... | Grand..... | 4,000 | 20 | 0.65 | 0.70 | 0.91 | 0.50 | 0.83 | 0.21 | 0.61 | 0.71 | 1.10 | 0.66 | 0.63 | 0.74 | 8.25 |
| Modena..... | Iron..... | 5,474 | 0 | 0.74 | 0.77 | 1.37 | 1.70 | 1.38 | 0.44 | 0.31 | 0.39 | 0.50 | 0.85 | 0.91 | 0.87 | 10.17 |
| Parowan..... | Washington..... | 5,970 | 18 | 1.60 | 1.33 | 1.88 | 1.19 | 1.17 | 0.20 | 0.94 | 1.29 | 1.04 | 0.85 | 0.91 | 0.87 | 12.42 |
| Pinto..... | Kane..... | 5,607 | 12 | 1.20 | 1.57 | 2.28 | 1.13 | 1.09 | 0.26 | 1.05 | 1.03 | 1.38 | 1.46 | 1.11 | 0.66 | 15.12 |
| Ranch..... | Washington..... | 6,700 | 8 | 2.40 | 2.95 | 5.17 | 1.63 | 1.43 | 0.28 | 1.64 | 1.80 | 1.33 | 1.17 | 1.65 | 1.41 | 23.12 |
| St. George..... | Washington..... | 2,880 | 23 | 1.00 | 0.97 | 0.72 | 0.38 | 0.40 | 0.05 | 0.97 | 0.74 | 0.49 | 0.49 | 0.44 | 0.89 | 7.54 |
| Tropic..... | Garfield..... | 7,000 | 12 | 0.83 | 0.05 | 0.77 | 1.02 | 0.83 | 0.39 | 0.89 | 1.47 | 1.05 | 0.68 | 0.92 | 0.43 | 10.23 |

TEMPERATURE.

The mean temperature for the State, determined from the reports of 55 stations, was 66.2°, which was 1.3° above the normal.

The highest local monthly mean was 79.4° at Springdale, and the lowest was 52.0° at Scofield.

The highest temperature recorded was 110° at Green River, on the 30th, and the lowest, 20° at Scofield, on the 10th, giving a range for the section of 90°.

The greatest local monthly range was 70° at Scofield, and the least, 49° at Utah Lake Pumping Station.

PRECIPITATION.

The average precipitation, determined from the reports of 66 stations, was 0.14 inch, which was 0.36 inch below the normal for the State.

The greatest monthly amount was 0.79 inch at Government Creek, and the least monthly amount was a 0.00 inch at Kanosh, Thistle, Enterprise, Escalante, Frisco, Grayson, Hite, Loa, Pinto and St. George.

The greatest amount of precipitation in any 24 consecutive hours was 0.65 inches at Emery, on the 7th.

There was an average of 1 day with 0.01 inch or more of precipitation; 2 over the northern, 1 over the middle, and 1 over the southern section.

WIND.

The prevailing direction for the section was southwest.

The total number of miles recorded at Salt Lake City was 4443; at Modena, 9315; at Grand Junction, Colo., 4249; and at Pocatello, Idaho, 5486.

The maximum velocity at Salt Lake City was 33 miles per hour from the west on the 7th; at Modena, 65 miles from the southwest on the 18th; at Grand Junction, Colo., 28 miles from the southeast on the 6th; and at Pocatello, Idaho, 30 miles from the southwest on the 16th.

CLOUDINESS.

The average number of clear days for the section during the month was 20; partly cloudy days, 7; cloudy days, 3.

According to the records of automatic sunshine recorders, Salt Lake City had 77 per cent; Modena 92 per cent; Grand Junction, Colo., 75 per cent; and Pocatello, Idaho, 69 per cent of the possible amount of sunshine.

HUMIDITY.

The mean relative humidity for the month at Salt Lake City was 36 per cent, the lowest observed reading being 15 per cent on the 15th; at Modena, 26 per cent, the lowest observed reading being 5 per cent on the 17th; at Grand Junction, Colo., 30 per cent, the lowest observed reading being 9 per cent on the 25th and 26th; and at Pocatello, Idaho, 47 per cent, the lowest observed reading being 15 per cent on the 18th.

WATER STAGES.

The level of Great Salt Lake on June 1st was 5.5 feet above zero; on June 15th, 5.7 feet above, and on July 1st, 5.7 feet above.

ERRATA.

May, 1909, report. Page 37:—Government Creek, mean temperature should be 50.2°.

Milford, mean temperature should be 55.4°.

Park City, mean temperature and departure and minimum temperature and date should be blank.

Page 38:—Government Creek, mean maximum should be 65.1°; mean minimum should be 35.4°.

Park City, minimum temperatures should be blank.

INDEX TO SPECIAL ARTICLES.

The Prevalence of Winter Fogs, February, 1906.
Climatological Data for Heber, May, 1906.
Climatological Data for Alpine, June, 1906.
Climatological Data for Millville, July, 1906.
Climatological Data for Huntsville, August, 1906.
Climatological Data for Tropic, September, 1906.
Climatological Data for Aneth, November, 1906.
Climatological Data for Manti, December, 1906.
Phenological Records for Heber and Meadowville, January, 1907.

Climatological Data for Scipio, February, 1907.

Climatological Data for Salt Lake City, and Phenological Record for Emery, March, 1907.

Phenological Record for Henefer, April, 1907.

Phenological Records for Millville and Aneth, May, 1907.

Phenological Records for Levan and Marysville, June, 1907.

Climatological Data for Salt Lake City, July, 1907.

Climatological Data for Corinne, August, 1907.

Climatological Data for Moab, September, 1907.

Climatological Data for Parowan, October, 1907.

Climatological Data for Loa, November, 1907.

Normal Precipitation for Northern Utah, April, 1909.

Normal Precipitation for Central Utah, May, 1909.

Normal Precipitation for Southern Utah, June, 1909.

NOTE:—A complete index appears in the Annual Summary for 1905 for articles published up to that time.

COMPARATIVE STATE DATA FOR JUNE.

| Year. | Temperature. | | | Average Precipitation. |
|------------|--------------|----------|---------|------------------------|
| | Mean. | Highest. | Lowest. | |
| 1892 | 65.0 | 116 | 22 | 0.46 |
| 1893 | 64.0 | 105 | 19 | 0.02 |
| 1894 | 61.5 | 106 | 15 | 0.84 |
| 1895 | 62.8 | 106 | 18 | 0.43 |
| 1896 | 70.0 | 112 | 21 | 0.20 |
| 1897 | 63.2 | 104 | 20 | 0.25 |
| 1898 | 65.2 | 110 | 22 | 0.78 |
| 1899 | 64.0 | 110 | 21 | 0.58 |
| 1900 | 69.7 | 111 | 30 | 0.16 |
| 1901 | 63.3 | 109 | 19 | 0.25 |
| 1902 | 66.9 | 114 | 21 | 0.17 |
| 1903 | 65.7 | 110 | 27 | 0.47 |
| 1904 | 63.3 | 102 | 21 | 0.47 |
| 1905 | 64.7 | 110 | 23 | 0.18 |
| 1906 | 62.2 | 106 | 22 | 0.59 |
| 1907 | 58.8 | 105 | 16 | 1.22 |
| 1908 | 59.6 | 104 | 20 | 1.09 |
| 1909 | 66.2 | 110 | 20 | 0.14 |

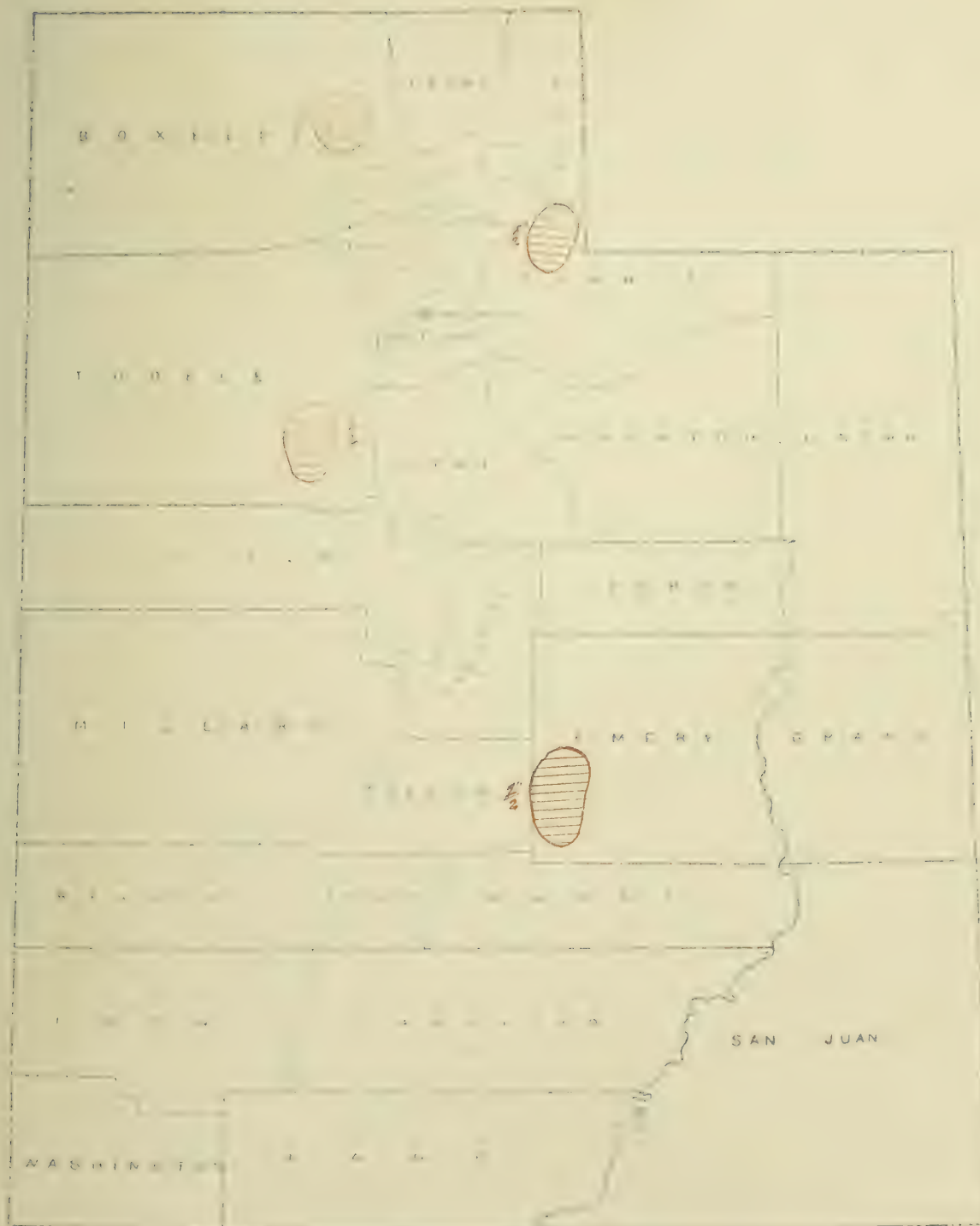
CLIMATOLOGICAL DATA, JUNE, 1909.

| Stations | Counties | Elevation feet | Length of record years | Temperature, in degrees Fahrenheit | | | | | | Precipitation in inches | | | | | | Sky | | | Observers | | |
|------------------|------------|----------------|------------------------|------------------------------------|---------------------------|---------|--------|------|--------|-------------------------|---------------------|-------|---------------------------|----------------------|--------------------------|-------------------------------------|-----------------------|----------------------|-----------|----------------------------|-------------------------|
| | | | | Mean | Departure from the normal | Highest | Lowest | Date | Lowest | Date | Greater daily range | Total | Departure from the normal | Greatest in 24 hours | Total snowfall in inches | Days with at least one inch of snow | Number of cloudy days | Number of rainy days | | Number of snowy days | Percentage of clear sky |
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,000 | 13 | | | | | | | | | | | | | | | | | T. B. Whitney. | |
| Castle Rock | Summit | 6,244 | 6 | | | | | | | | | 0.20 | -0.79 | 0.10 | 0.0 | 3 | 22 | 6 | 2 | W. | |
| Chino | Boxelder | 4,240 | 39 | 71.4 | +1.0 | 105 | 28 | 38 | 10 | 48 | 0.20 | -0.40 | -0.28 | 0.0 | 1 | 14 | 1 | 1 | SE. | David Moore. | |
| Crinington | Davis | 4,267 | 9 | 66.4 | +2.8 | 92 | *28 | 39 | 11 | 40 | T. | 0.0 | -0.08 | T. | 0.0 | 0 | 23 | 7 | 0 | SW. | |
| El Duchesne | Uinta | 5,000 | 21 | 65.4 | -0.6 | 97 | 30 | 29 | 7 | 84 | T. | -0.27 | -0.17 | T. | 0.0 | 0 | 28 | 2 | 10 | Charles Boylin. | |
| Grand | Boxelder | 4,350 | 1 | 66.6 | | 96 | 30 | 38 | 10 | 40 | 0.56 | | 0.32 | 0.0 | 7 | 20 | 7 | 4 | S. | Post Surgeon. | |
| Heber | Wasatch | 5,000 | 10 | 61.7 | +2.7 | 98 | *2 | 42 | 30 | 50 | 0.16 | -0.43 | 0.06 | 0.0 | 3 | 24 | 5 | 1 | SW. | Plant Industry Bureau. | |
| Henrieville | Summit | 5,300 | 10 | 60.2 | +2.3 | 93 | 30 | 29 | 10 | 80 | 0.40 | -0.37 | 0.18 | 0.0 | 5 | 26 | 8 | 2 | W. | John Crook. | |
| Interoceanic | Weber | 5,300 | 14 | | | | | | | | | 0.03 | -0.89 | 0.01 | 0.0 | 1 | 18 | 12 | 0 | W. | William Brewer. |
| Monticello | Boxelder | 4,507 | 31 | 65.8 | +4.7 | 93 | 39 | 37 | 10 | 47 | 0.15 | -0.24 | 0.10 | 0.0 | 2 | 7 | 21 | 2 | S. | Louis Peterson. | |
| Oriskany | Cache | 4,507 | 41 | | | | | | | | | 0.13 | -0.89 | 0.10 | 0.0 | 2 | 7 | 21 | 2 | S. | Agent So. Pacific R. R. |
| Panguitch | Boxelder | 4,504 | 5 | 68.2 | +10.1 | 102 | 39 | 36 | 10 | 51 | T. | | T. | 0.0 | 0 | 18 | 16 | 5 | | Agricultural College. | |
| Paria | Summit | 6,750 | 5 | | | | | | | | | 0.26 | -1.24 | 0.21 | 0.0 | 3 | 10 | 8 | 12 | HW. | C. J. Burke. |
| Panguitch | Rich. | 6,200 | 10 | 58.3 | +3.1 | 87 | 39 | 39 | 9 | 43 | 0.30 | -0.71 | 0.25 | 0.0 | 2 | 23 | 6 | 1 | W. | J. Woodendahlme. | |
| Panguitch | Cache | 4,848 | 14 | | | | | | | | | 0.28 | -0.64 | 0.07 | 0.0 | 0 | | | | J. B. Moffat. | |
| Panguitch | Morgan | 5,080 | 6 | | | | | | | | | | | | | | | | | Fred Yentes. | |
| Panguitch No. 1 | Weber | 4,210 | 8 | 70.3 | +5.0 | 95 | 39 | 42 | 9 | 53 | 0.26 | -0.12 | 0.16 | 0.0 | 2 | 24 | 3 | 2 | HW. | W. Visick. | |
| Panguitch No. 2 | Weber | 4,210 | 39 | 73.7 | +2.4 | 95 | 30 | 42 | 9 | 53 | 0.21 | -0.48 | 0.14 | 0.0 | 2 | 23 | 6 | 1 | W. | Enoch Farr. | |
| Panguitch | Summit | 7,800 | 12 | | | | | | | | | 0.31 | -0.31 | 0.26 | 0.0 | 3 | 15 | 11 | 0 | W. | W. H. Chevers. |
| Panguitch | Boxelder | 4,013 | 2 | | | | | | | | | 0.20 | 0.31 | 0.20 | 2.0 | 1 | | | | Prof. A. D. Griffin. | |
| Panguitch | Rich. | 4,442 | 6 | | | | | | | | | 0.38 | -0.89 | 0.21 | 0.0 | 3 | 25 | 0 | 5 | SW. | F. C. Houghton. |
| Panguitch | Salt Lake | 4,220 | 6 | | | | | | | | | | | | | | | | | Wm. Rex. | |
| Panguitch | Salt Lake | 4,366 | 35 | 69.9 | +1.6 | 95 | 39 | 44 | 10 | 31 | 0.17 | -0.60 | 0.12 | 0.0 | 4 | 19 | 9 | 2 | SE. | E. J. Bench. | |
| Panguitch | Salt Lake | 3 | 56.5 | | | | | | | | | | 0.20 | 0.0 | 5 | 19 | 11 | 0 | SE. | Section Center. | |
| Panguitch | Boxelder | 4,360 | 19 | 61.5 | +1.0 | 95 | *24 | 27 | *1 | 63 | 0.25 | -0.43 | 0.25 | 0.0 | 1 | | | | | N. J. Ferhaff. | |
| Panguitch | Wasatch | 5 | 57.0 | | | | | | | | | | T. | 0.0 | 0 | 24 | 7 | 0 | | Joseph Robbins. | |
| Panguitch | Wasatch | 5,507 | 4 | 62.8 | | | | | | | | 0.26 | 0.26 | 0.0 | 1 | 15 | 14 | 1 | W. | U. S. Reclamation Service. | |
| Panguitch | Tooele | 4,900 | 13 | 68.0 | +2.8 | 92 | 30 | 42 | *9 | 58 | 0.18 | -0.58 | 0.07 | 0.0 | 3 | 13 | 6 | 11 | W. | M. M. Smith. | |
| Panguitch (near) | Uinta | 5,050 | 14 | 67.0 | +0.5 | 94 | 28 | 43 | *10 | 43 | 0.17 | -0.22 | 0.10 | 0.0 | 3 | 14 | 6 | 11 | W. | E. A. Bonelli. | |
| Panguitch | Rich. | 6,500 | 12 | | | | | | | | | | | | | | | | | Josh Collier. | |
| Panguitch | Averages | | | 65.0 | +1.1 | | | | | | | 0.22 | -0.47 | | T. | 2 | 17 | 8 | 3 | SW. | James Stuart. |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | |
| Panguitch | Sevier | 5,250 | 4 | 67.1 | | | | | | | | 0.01 | -0.40 | 0.01 | 0.0 | 1 | 12 | 18 | 0 | SW. | J. W. Fairbanks. |
| Panguitch | Millard | 4,872 | 9 | | | | | | | | | | | | | | | | | A. H. Cassell. | |
| Panguitch | Emery | 5,500 | 10 | 65.8 | +2.9 | 95 | 39 | 39 | 10 | 46 | 0.41 | +0.05 | 0.36 | 0.0 | 2 | 22 | 4 | 0 | | James Jeffs. | |
| Panguitch | Millard | 4,541 | 15 | 68.2 | +3.1 | 99 | 30 | 40 | 8 | 49 | T. | -0.43 | T. | 0.0 | 0 | 23 | 3 | 4 | S. | S. W. Western. | |
| Panguitch | Uinta | 6,000 | 2 | 69.6 | +100.0 | *29 | 45 | 20 | 32 | T. | | | T. | 0.0 | 0 | 26 | 0 | 4 | S. | H. J. Cooper. | |
| Panguitch | Emery | 6,260 | 9 | 64.8 | +6.2 | 90 | 30 | 39 | 10 | 44 | 0.65 | -0.31 | 0.65 | 0.0 | 1 | 3 | 8 | 19 | SW. | H. C. Wickman. | |
| Panguitch | Millard | 5,100 | 19 | 71.2 | +3.9 | 103 | 30 | 37 | 10 | 45 | 0.02 | -0.52 | 0.02 | 0.0 | 1 | | | | | J. J. Starley. | |
| Panguitch | Millard | 6 | 66.8 | | | | | | | | | T. | 0.0 | 0 | 20 | 6 | 3 | S. | | E. M. Smith. | |
| Panguitch | Tooele | 5,277 | 9 | 65.2 | +3.0 | 99 | 30 | 35 | 11 | 42 | 0.79 | +0.22 | 0.62 | 0.0 | 3 | 18 | 2 | 10 | S. | Walter James. | |
| Panguitch | Emery | 4,080 | 12 | 75.7 | +2.8 | 110 | 39 | 41 | 10 | 52 | T. | -0.05 | T. | 0.0 | 0 | 26 | 4 | 0 | | J. H. Fritz. | |
| Panguitch | Tooele | 7,000 | 4 | | | | | | | | | | | | | | | | | E. S. Gamwell. | |
| Panguitch | Millard | 5,000 | 3 | | | | | | | | | 0.00 | 0.00 | 0.0 | 0 | | | | | Geo. Crane. | |
| Panguitch | Juab | 5,010 | 19 | 66.2 | +2.8 | 94 | 39 | 37 | 10 | 40 | 0.06 | -0.54 | 0.06 | 0.0 | 1 | 21 | 6 | 3 | SW. | William Brown. | |
| Panguitch | Sanpete | 5,575 | 15 | 60.2 | -4.0 | 83 | 29 | 35 | 10 | 33 | 0.32 | -0.07 | 0.32 | 0.0 | 1 | 14 | 5 | 6 | | J. M. Anderson. | |
| Panguitch | Sanpete | 5,750 | 5 | | | | | | | | | 0.07 | 0.06 | 0.0 | 2 | 2 | 28 | 0 | SW. | B. F. Eliason. | |
| Panguitch | Utah | 4,650 | 8 | 69.4 | +3.8 | 97 | *29 | 43 | *1 | 43 | T. | -0.47 | T. | 0.0 | 0 | 27 | 3 | 0 | S. | D. C. Walkey. | |
| Panguitch | Sanpete | 5,859 | 17 | | | | | | | | | | | | | | | | | Miss Jane Martin. | |
| Panguitch | Juab | 6,050 | 6 | | | | | | | | | 0.10 | -0.67 | 0.10 | 0.0 | 1 | 28 | 1 | 1 | SW. | A. Madsen. |
| Panguitch | Millard | 4,900 | 5 | | | | | | | | | | | | | | | | | J. Finlinson. | |
| Panguitch | Utah | 4,637 | 6 | | | | | | | | | 0.02 | -0.97 | 0.02 | 0.0 | 1 | 13 | 12 | 5 | SW. | D. L. Coombs. |
| Panguitch | Utah | 4,532 | 17 | 66.7 | +2.8 | 96 | 39 | 36 | 10 | 45 | 0.25 | -0.43 | 0.25 | 0.0 | 1 | 16 | 14 | 0 | n. | James A. Oliver. | |
| Panguitch | Sevier | 5,350 | 19 | 66.9 | +3.7 | 100 | 39 | 29 | 1 | 52 | 0.10 | -0.26 | 0.10 | 0.0 | 1 | 24 | 0 | 6 | SW. | J. J. Jensen. | |
| Panguitch | Carbon | 7,635 | | 63.2 | -0.1 | 94 | 39 | 29 | 9 | 53 | T. | -0.42 | T. | 0.0 | 0 | 17 | 8 | 5 | SW. | Thomas Memmott. | |
| Panguitch | Millard | 5,260 | 14 | 52.0 | | | | | | | | | 0.53 | 0.0 | 2 | 27 | 2 | 1 | | O. E. Jorgensen. | |
| Panguitch | Utah | 7,474 | 17 | | | | | | | | | | | | | | | | | Agent Rio Grande R. R. | |
| Panguitch | Carbon | 5,280 | 5 | | | | | | | | | | 0.55 | 0.00 | 0.0 | 0 | 25 | 2 | 3 | | Henry Cullum. |
| Panguitch | Utah | 5,075 | 17 | 65.7 | +2.8 | 90 | *17 | 34 | 1 | 42 | 0.00 | 0.55 | 0.00 | 0.0 | 0 | 25 | 2 | 3 | | Ag't. Rio Grande W. R. R. | |
| Panguitch | Utah | 4,505 | 5 | 66.0 | | | | | | | | | 0.09 | 0.0 | 4 | 24 | 5 | 1 | SE. | W. A. Knight. | |
| Panguitch | Carbon | 5,540 | 10 | 60.7 | -2.3 | 93 | *28 | 43 | 20 | 50 | | -0.22 | | | | | | | | Melville Branch. | |
| Panguitch | Averages | | | 65.9 | +1.5 | | | | | | | 0.16 | -0.36 | | | 1 | 20 | 7 | 3 | SW. | |
| SOUTHERN. | | | | | | | | | | | | | | | | | | | | | |
| Panguitch | San Juan | 4,800 | 9 | | | | | | | | | | | | | | | | | | |
| Panguitch | Beaver | 6 | 65.8 | | | | | | | | | | -0.05 | T. | 0.0 | 0 | 22 | 7 | 1 | SW. | James Connell. |
| Panguitch | Iron | 4 | | | | | | | | | | | | | | | | | | J. M. Foster. | |
| Panguitch | Garfield | 8 | | | | | | | | | | | | | | | | | | Mrs. E. Clayton. | |
| Panguitch | Washington | 4 | | | | | | | | | | 0.00 | 0.00 | 0.0 | 0 | 22 | 7 | 1 | S. | John Day. | |
| Panguitch | Garfield | 5,700 | 9 | 64.2 | -0.6 | 90 | 39 | 39 | 8 | 41 | 0.00 | -0.29 | 0.00 | 0.0 | 0 | 28 | 0 | 2 | | Geo. H. Barney. | |
| Panguitch | Washington | 6 | 77.8 | | | | | | | | | | | | | | | | | Joseph T. Atkins. | |
| Panguitch | Beaver | 7,318 | 15 | 68.9 | -0.5 | 97 | 30 | 42 | *9 | 36 | 0.00 | -0.24 | 0.00 | 0.0 | 0 | | | | | E. R. Smyth. | |
| Panguitch | San Juan | 5 | 69.0 | | | | | | | | | -0.23 | 0.00 | 0.0 | 0 | 26 | 3 | 1 | S. | Joseph A. Lyman. | |
| Panguitch | Garfield | 3,000 | 10 | 77.7 | -0.4 | 107 | 30 | 53 | 8 | 46 | 0.00 | -0.15 | 0.00 | 0.0 | 0 | 23 | 7 | 0 | | J. P. Hite. | |
| Panguitch | Kane | 4,925 | 9 | | | | | | | | | | -0.29 | 0.06 | 0.0 | 4 | 18 | 10 | 0 | | W. J. F. McAllister. |
| Panguitch | San Juan | 7,000 | 9 | 62.9 | +2.0 | 89 | 39 | 37 | 1 | 35 | 0.06 | -0.29 | 0.06 | 0.0 | 0 | | | | | Mrs. G. W. Carpenter. | |

MAXIMUM AND MINIMUM TEMPERATURES, JUNE, 1909.

| STATIONS. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | 27. | 28. | 29. | 30. | 31. | MEANS. | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| NORTHERN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corinne | 88.36 | 91.10 | 97.53 | 93.55 | 97.57 | 93.55 | 81.55 | 75.43 | 71.41 | 70.38 | 51.41 | 88.44 | 86.45 | 94.30 | 96.54 | 95.56 | 97.53 | 97.50 | 89.53 | 71.10 | 71.48 | 91.51 | 91.51 | 93.59 | 93.59 | 95.57 | 95.57 | 93.59 | 93.59 | 93.59 | 93.59 | 93.59 | |
| Farmington | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | 70.36 | |
| Garland | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | |
| Hepler | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | |
| Kelton | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | 82.36 | |
| Laurel | 97.51 | 91.10 | 93.50 | 99.56 | 99.56 | 99.56 | 80.41 | 78.40 | 70.37 | 70.37 | 65.30 | 66.34 | 85.48 | 82.40 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | 71.48 | |
| Lehigh | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | |
| Meadowville | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | |
| Morgan | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Oakden No. 1 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Oak City | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Salisbury | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Salt Lake City | 75.53 | 72.30 | 78.44 | 81.64 | 75.64 | 72.53 | 71.54 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 | 66.47 | 71.45 |
| Silver Lake | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Snowflake | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Strawberry Valley | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Theodore | 74.47 | 82.53 | 90.60 | 91.73 | 81.61 | 73.52 | 60.51 | 64.44 | 63.42 | 62.32 | 76.45 | 84.72 | 75.50 | 80.59 | 85.41 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 | 86.42 |
| Tonoloway | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| Vernal [near] | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 | 86.55 |
| MIDDLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annabella | 96.42 | 96.15 | 92.50 | 86.55 | 80.55 | 85.45 | 85.45 | 80.46 | 86.46 | 86.46 | 86.46 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Black Rock | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Castle Dale | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Deseret | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Drum | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Emery | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Fillmore | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Garfield | 75.45 | 71.45 | 91.45 | 93.50 | 88.54 | 86.48 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Government Creek | 76.44 | 84.15 | 85.50 | 92.61 | 84.55 | 82.43 | 70.47 | 75.40 | 71.45 | 71.45 | 80.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 | 86.46 |
| Green River | 86.47 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 | 92.48 |
| Harrah [near] | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 |
| Levan | 68.45 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 |
| Manti | 86.45 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 |
| Monte Nebo | 86.45 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 |
| Oak City | 86.45 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 |
| Onk Mountain | 86.45 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 |
| Provo | 86.45 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.43 | 70.4 | | | | | | | | |

TOTAL PRECIPITATION 1881-1885

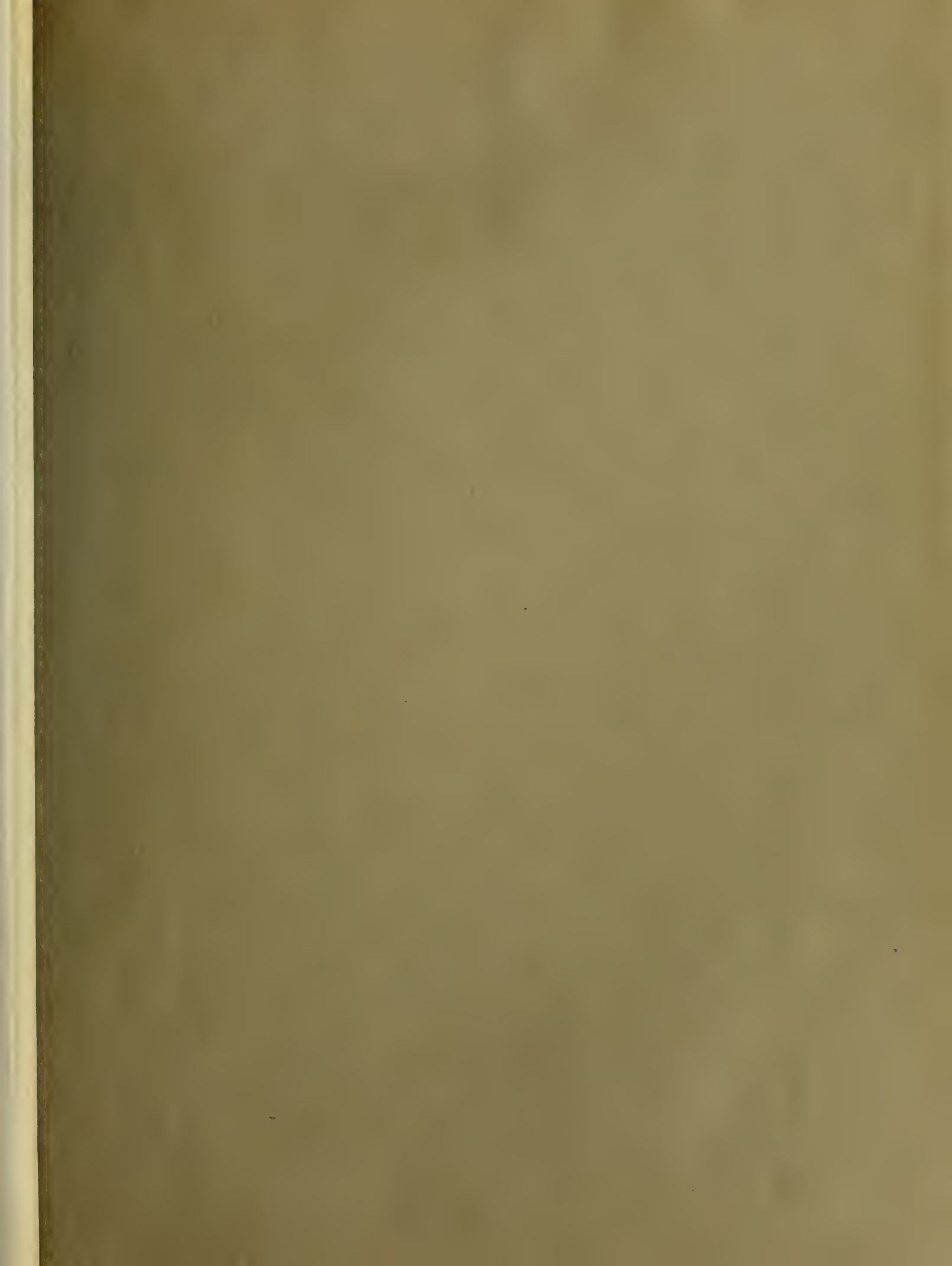


SCALE OF SHADES--IN INCHES



. Day of month.

† Distribution not known.



UNIVERSITY OF ILLINOIS-URBANA



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